LEAD 473

#### 8. REFERENCES

- \*Abadin HG, Wheeler JS, Jones DE, et al. 1997a. A framework to guide public health assessment decisions at lead sites. J Clean Technol Environ Toxicol Occup Med 6:225-237.
- \*Abadin HG, Hibbs BF, Pohl HR. 1997b. Breast-feeding exposure of infants to cadmium, lead, and mercury: A public health viewpoint. Toxicol Ind Health 15(4):1-24.
- Abbritti G, Muzi G, Cicioni C, et al. 1989. [Effects of low doses of lead on children's health.] Ann Ist Super Sanita 25:437-447. (Italian)
- \*Abrams SA, Esteban NV, Vieira NE, et al. 1992. Developmental changes in children assessed using stable isotopes. J Bone Miner Res 7:287-293.
- Abulfaraj WH, Ahmed M, Mousli KM, et al. 1990. Measurement of ambient air lead concentrations in the city of Jeddah, Saudi Arabia. Environ Inter 16:85-88.
- \*ACGIH. 1986. Documentation of the threshold limit values and biological exposure indices. 5th ed. American Conference of Governmental Industrial Hygienists. Cincinnati, OH, BEI-19 to BEI-23.
- \*ACGIH. 1990. Threshold limit values and biological exposure indices for 1990-1991. American Conference of Governmental Industrial Hygienists. Cincinnati, OH, 631.
- \*ACGIH. 1996. Threshold limit values for chemical substances and physical agents and biological exposure indices for 1995-1996. American Conference of Governmental Industrial Hygienists, Cincinnati, OH.
- \*ACGIH. 1998. 1998 TLVs and BEIs. Threshold limit values for chemical substances and physical agents. Biological exposure indices. American Conference of Governmental Industrial Hygienist. March 1, 1998.
- \*Adebonojo FO. 1974. Hematologic status of urban black children in Philadelphia: Emphasis on the frequency of anemia and elevated blood lead levels. Clin Pediatr 13:874-888.
- \*Adinolfi M. 1985. The development of the human blood-CSF-brain barrier. Developmental Medicine & Child Neurology 27:532-537.
- \*Aguilera de Benzo Z, Fraile R, Carrion N, et al. 1989. Determination of lead in whole blood by electrothermal atomization atomic absorption spectrometry using tube and platform atomizers and dilution with Triton X-100. Journal of Analytical and Atmospheric Spectrometry 4:397-400.

Ahlberg J, Ramel C, Wachtmeister CA. 1972. Organolead compounds shown to be genetically active. Ambio 1:29-31.

\*Ahlgren L, Liden S, Mattson, et al. 1976. X-ray fluorescence analysis of lead in human skeleton *in vivo*. Scand J Work Environ Health 2:82-86.

٠

<sup>\*</sup>Cited in text

# LEAD 474 8. REFERENCES

- Ahmed M, Ahmad P, Kutbi 1. 1989. Lead pollution in urban and rural Saudi Arabian children. Bull Environ Contam Toxicol 43:660-666.
- Ahmed NS, El-Gendy KS, El-Refaie AK et al. 1987. Assessment of lead toxicity in traffic controllers of Alexandria, Egypt, road intersections. Arch Environ Health 42:92-95.
- Al Dhaheri AH, El-Sabban F, Fahim MA. 1995. Chronic lead treatment accelerates photochemically induced platelet aggregation in cerebral microvessels of mice, *in vivo*. Environ Res 69:51-58.
- \*Al Khayat A, Habibullah J, Koutouby A, et al. 1997b. Correlation between maternal and cord blood lead levels. International Journal of Environmental Health Research 7(4):323-328.
- \*Al Khayat A, Menon NS, Alidina MR. 1997a. Acute lead encephalopathy in early infancy-clinical presentation and outcome. Annals of Tropical Paediatrics 17(1):39-44.
- \*Al-Hakkak ZSH, Hamamy HA, Murad AMB, et al. 1986. Chromosome aberrations in workers at a storage battery plant in Iraq. Mut Res 171:53-60.
- \*Al-Modhefer AJA, Bradbury MWB, Simmons TJB. 1991. Observations on the chemical nature of lead in human blood serum. Clin Sci 81:823-829.
- \*Al-Rashdan A, Heitkemper D, Caruso JA. 1991. Lead speciation by HPLC-ICP-AES and HPLC-ICP-MS. J Chromatogr Sci 29(3):98-102.
- Alegria A, Barbera R, Farre R, et al. 1990. Evaluation of antimony, cadmium, and lead levels in vegetables, drinking and raw water from different agricultural areas. Int J Environ Anal Chem 38:65-73.
- \*Alessio L. 1988. Relationships between "chelatable lead" and the indicators of exposure and effect in current and past occupational life. Sci Total Environ 71:293-299.
- \*Alessio L, Bertazzi PA, Monelli O, et al. 1976. Free erythrocyte protoporphyrin as an indicator of the biological effect of lead in adult males: II. Comparison between free erythrocyte protoporphyrin and other indicators of effect. Int Arch Occup Environ Health 37:89-105.
- \*Alexander BH, Checkoway H, van Netten C, et al. 1996. Semen quality of men employed at a lead smelter. Occup Environ Med 53:411-416.
- Alexander DL. 1989. Chronic lead exposure: A problem for minority workers. Am Assoc Occup Health Nursing J 37:105-108.
- \*Alexander FW, Clayton BE, Delves HT. 1974. Mineral and trace-metal balances in children receiving normal and synthetic diets. QJ Med 43:89-111.
- \*Alexander FW, Delves HT. 1981. Blood lead levels during pregnancy. Int Arch Occup Environ Health 48:35-39.
- \*Alfano DP, LeBoutillier JC, Petit TL. 1982. Hippocampal mossy fiber pathway development in normal and postnatally lead-exposed rats. Exp Neurol 75:308-319.

# LEAD 475 8. REFERENCES

- \*Alfano DP, Petit TL. 1982. Neonatal lead exposure alters the dendritic development of hippocampal dentate granule cells. Exp Neurol 75:275-288.
- \*Allen LB, Siitonen PH, Thompson HC Jr. 1998. Determination of copper, lead, and nickel in edible oils by plasma and furnace atomic spectroscopies. Journal of the American Oil Chemists' Society 75(4):477-481.
- \*Alomran AH, Shleamoon MN. 1988. The influence of chronic lead exposure on lymphocyte proliferative response and immunoglobulin levels in storage battery workers. Journal of Biological Science Research 19:575-585.
- \*Altman PK, Dittmer DS. 1974. In: Biological Handbooks: Biology Data Book, Volume III, second edition. Bethesda, MD: Federation of American Societies for Experimental Biology, pp. 1987-2008, 2041.
- Altmann L,Gutowski M, Wiegand H. 1994. Effects of maternal lead exposure on functional plasticity in the visual cortex and hippocampus of immature rats. Develop Brain Res 81:50-56.
- \*Altmann L, Sveinsson K, Kraemer U, et al. 1998. Visual functions in 6-year-old children in relation to lead and mercury levels. Neurotoxicology and Teratology 20(1):9-17.
- \*Alvares AP, Kapelner S, Sassa S, et al. 1975. Drug metabolism in normal children, lead-poisoned children, and normal adults. Clin Pharmacol Ther 17:179-183.
- \*American Academy of Pediatrics. 1998. Screening for elevated blood lead levels. Policy Statement. Committee on Environmental Health. Pediatrics 101(6):1072-1078.
- \*American Academy of Pediatrics. 1995. Treatment guidelines for lead exposure in children. Pediatrics 96(1):155-160.
- \*Amitai Y, Graef JW, Brown MJ, et al. 1987. Hazards of deleading homes of children with lead poisoning. Am J Dis Child 141:758-760.
- Anders E, Bagnell CR Jr, Krigman M, et al. 1982. Influence of dietary protein composition on lead absorption in rats. Bull Environ Contam Toxicol 28:61-67.
- \*Andersen ME, MacNaughton MG, Clewell HJ, et al. 1987. Adjusting exposure limits for long and short exposure periods using a physiological pharmacokinetic model. Am Ind Hyg Assoc J 48(4):335-343.
- \*Andersen ME, Krishman K. 1994. Relating *in vitro* to *in vivo* exposures with physiologically-based tissue dosimetry and tissue response models. In: H. Salem, ed. Current concepts and approaches on animal test alternatives. U.S. Army Chemical Research Development and Engineering Center, Aberdeen Proving Ground, Maryland.
- \*Andersen ME, Krishnan K. 1994. Relating *in vitro* to *in vivo* exposures with physiologically-based tissue dosimetry and tissue response models. In: H. Salem, ed. Animal test alternatives. U.S. Army Chemical Research Development and Engineering Center, Aberdeen Proving Ground, Maryland.
- \*Andersen ME, MacNaughton MG, Clewell HJ, et al. 1987. Adjusting exposure limits for long and short exposure periods using a physiological pharmacokinetic model. Am Ind Hyg Assoc J 48 (4):335-343.

# LEAD 476 8. REFERENCES

- \*Anderson RJ. 1987. Peripheral nerve conduction velocities and excitability. In: Lowndes HE, ed. Electrophysiology in neurotoxicology, Vol. 11. Piscataway, NJ: Department of Pharmacology and Toxicology, Rutgers 51-69.
- \*Angle CR. 1993. Childhood lead poisoning and its treatment. Ann Rev Pharmacol Toxicol 33:409-434.
- \*Angle CR, Kuntzelman DR. 1989. Increased erythrocyte protoporphyrins and blood lead--a pilot study of childhood growth patterns. J Toxicol Environ Health 26:149-156.
- \*Angle CR, Marcus A, Cheng I-H, et al. 1984. Omaha childhood blood lead and environmental lead: A linear total exposure model. Environ Res 35:160-170.
- \*Angle CR, McIntire MS. 1978. Low level lead and inhibition of erythrocyte pyrimidine nucleotidase. Environ Res 17:296-302.
- \*Angle CR, McIntire MS. 1979. Environmental lead and children: The Omaha study. J Toxicol Environ Health 5:855-870.
- \*Angle CR, McIntire MS, Swanson MS, et al. 1982. Erythrocyte nucleotides in children--increased blood lead and cytidine triphosphate. Pediatr Res 16:331-334.

Anonymous. 1985. Blood lead levels, dietary calcium, and hypertension. Annals of Internal Medicine 103:403-404.

Anonymous. 1987. Lead and inorganic compounds of lead in air. Health and Safety Executive Sales Point, St. Hugh's House, Stanley Precinct, Bootle, Merseyside L20 3QY, United Kingdom, 4.

\*Anonymous. 1997. National decline in lead exposure indicated. Journal of Environmental Health 59(10):28.

Antonini G, Ferracuti S, Pennisi E, et al. 1989. Wine poisoning as a source of lead intoxication. Am J Med 87:238-239.

- \*Anttila A, Heikkila P, Nykyri E, et al. 1996. Risk of nervous system cancer among workers exposed to lead. J Occup Environ Med 38(2):131-136.
- \*Anttila A, Heikkila P, Pukkala E, et al. 1995. Excess lung cancer among workers exposed to lead. Scand J Work Environ Health 21:460-469.

Apostoli P, Romeo L, De Matteis MC. 1988. Effects of lead on red blood cell membrane proteins. Int Arch Occup Environ Health 6:71-75.

- \*Araki S, Aono H, Yokoyama K, et al. 1986. Filterable plasma concentration, glomerular filtration, tubular reabsorption and renal clearance of heavy metals and organic substances in metal workers. Arch Environ Health 41:216-221.
- \*Araki S, Honma T, Yanagihara S, et al. 1980. Recovery of slowed nerve conduction velocity in lead-exposed workers. Int Arch Occup Environ Health 46:151-157.

#### LEAD 477 8. REFERENCES

- \*Araki S, Sata F, Katsuyuki M. 1990. Adjustment for urinary flow rate: and improved approach to biological monitoring. Int Arch Environ Health 62:471-477.
- \*Areola OO, Williams-Johnson M, Jadhav AL. 1999. Relationship between lead accumulation in blood and soft tissues of rats subchronically exposed to low levels of lead. Toxic Substances Mechanisms 18:1-13.
- \*Aria F, Yamamura Y. 1990. Excretion of tetramethyllead, trimethyllead and inorganic lead after injection of tetramethyllead to rabbits. Ind Health 28:63-76.
- \*Ariza ME, Bijur GN, Williams MV. 1998. Lead and mercury mutagenesis: Role of H2O2, superoxide dismutase, and xanthine oxidase. Environ Mol Mut 31:352-361.
- \*Arnvig E, Grandjean P, Beckmann J. 1980. Neurotoxic effects of heavy lead exposure determined with psychological tests. Toxicol Lett 5:399-404.
- \*Aroza I, Bonilla M, Madrid Y, et al. 1989. Combination of hydride generation and graphite furnace atomic absorption spectrometry for the determination of lead in biological samples. J Anal Atmos Spectro 4:163-166.
- \*Aschengrau A, Beiser A, Bellinger D, et al. 1994. The impact of soil lead abatement on urban children's blood lead levels: Phase II results from the Boston lead-in-soil demonstration project. Environ Research 67:125-148.
- \*Asokan SK. 1974. Experimental lead cardiomyopathy: Myocardial structural changes in rats given small amounts of lead. J Lab Clin Med 84:20-25.
- \*Assennato G, Baser M, Molinini R, et al. 1987. Sperm count suppression without endocrine dysfunction in lead-exposed men. Arch Environ Health 42:124-127.
- \*ASTM. 1998a. ASTM E 1613. Standard test method for analysis of digested samples for lead by inductively coupled plasma atomic emission spectrometry (ICP-AES). Flame Atomic Absorption (FAAS), or Graphite Furnace Atomic Absorption (GFAA) Techniques. American Society for Testing and Materials.
- \*ASTM. 1998b. ASTM E 1644. Standard practice for hot plate digestion of dust wipe samples for the determination of lead by atomic spectrometry. American Society for Testing and Materials.
- \*ASTM. 1998c. ASTM E 1645. Standard practice for the preparation of dried paint samples for subsequent lead analysis by atomic spectrometry. American Society for Testing and Materials.
- \*ASTM. 1998d. ASTM E 1726. Standard practice for sample digestion of soils for the determination of lead by atomic spectrometry. American Society for Testing and Materials.
- \*ASTM. 1998e. ASTM E 1727. Standard practice for field collection of soil samples for lead determination by atomic spectrometry techniques. American Society for Testing and Materials.

# LEAD 478 8. REFERENCES

- \*ASTM. 1998f. ASTM E 1728. Standard practice for field collection of settled dust samples using wipe sampling methods for lead determination by atomic spectrometry techniques. American Society for Testing and Materials.
- \*ASTM. 1998g. ASTM E 1729. Standard practice for field collection of dried paint samples for lead determination by atomic spectrometry techniques. American Society for Testing and Materials.
- \*Astrin KH, Bishop DF, Wetmur JG, et al. 1987. Delta-aminolevulinic acid dehydratase isozymes and lead toxicity. Ann NY Acad Sci 514:23-29.
- \*ATSDR. 1988. The nature and extent of lead poisoning in children in the United States: A report to Congress. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry.
- \*ATSDR. 1989. Decision guide for identifying substance-specific data needs related to toxicologicol profiles. Agency for Toxic Substances and Disease Registry, Division of Toxicology, Atlanta, GA.
- \*ATSDR. 1995. Multisite lead and cadmium exposure study with biological markers incorporated. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry.
- \*ATSDR/CDC. 1990. Subcommittee report on biological indicators of organ damage. Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Atlanta, GA.
- \*Aufderheide AC, Wittmers LE Jr. 1992. Selected aspects of the spatial distribution of lead in bone. Neurotoxicol. 13:809-820.
- \*Aungst BJ, Doice JA, Fung H-L. 1981. The effect of dose on the disposition of lead in rats after intravenous and oral administration. Toxicol Appl Pharmacol 61:48-57.
- \*Aungst BJ, Fung HL. 1981. Kinetic characterization of an *in vitro* lead transport across the rat small intestine. Toxicol Appl Pharmacol 61:38-47.
- \*Awad El Karim MA, Hamed AS, Elhaimi YAA, et al. 1986. Effects of exposure to lead among lead-acid battery factory workers in Sudan. Arch Environ Health 41:261-265.
- \*Azar A, Snee RD, Habibi K. 1975. An epidemiologic approach to community air lead exposure using personal air samplers. In: Griffin TB, Knelson JH, eds. Lead. Stuttgart, West Germany: Georg Thieme Publishers, 254-290.
- \*Azar A, Trochimowicz HJ, Maxfield ME. 1973. Review of lead studies in animals carried out at Haskell Laboratory: Two year feeding study and response to hemorrhage study. In: Barth D, Berlin A, Engel R, et al., eds. Environmental health aspects of lead: Proceedings, International Symposium, October 1972, Amsterdam, The Netherlands. Luxembourg: Commission of the European Communities, 199-210.
- \*Baghurst PA, McMichael AJ, Tong S, et al. 1995. Exposure to environmental lead and visual-motor integration at age 7 years: The Port Pirie cohort study. Epidemiology 6(2):104-109.

# LEAD 479 8. REFERENCES

- \*Baghurst PA, McMichael AJ, Wigg NR, et al. 1992. Environmental exposure to lead and children's intelligence at the age of seven years. New Engl J Med 327:1279-1284.
- \*Baghurst PA, Robertson EF, McMichael AJ, et al. 1987. The Port Pirie cohort study: Lead effects on pregnancy outcome and early childhood development. Neurotoxicology 8:395-401.
- \*Baker EL, Feldman RG, White RF, et al. 1983. The role of occupational lead exposure in the genesis of psychiatric and behavioral disturbances. Acta Psychiatr Scand Suppl 67:38-48.
- \*Baker EL, Goyer RA, Fowler BA, et al. 1980. Occupational lead nephropathy and renal cancer. Am J Ind Med 1:138-148.
- \*Baker EL, Hayes CG, Landrigan PH, et al. 1977. A nationwide survey of heavy metal absorption in children living near primary copper, lead, and zinc smelters. Am J Epidemiol 106(4):261-273.
- \*Baker EL Jr, Landrigan PJ, Barbour AG, et al. 1979. Occupational lead poisoning in the United States: Clinical and biochemical findings related to blood lead levels. Br J Ind Med 36:314-322.
- \*Balbus-Kornfeld JM, Stewart W, Bolla KI, et al. 1995. Cumulative exposure to inorganic lead and neurobehavioural test performance in adults: an epidemiological review. Occup Environ Med 52(1):2-12.
- Baldwin RW, Cunningham GJ, Pratt D. 1964. Carcinogenic action of motor engine oil additives. Br J Cancer 18:503-507.
- \*Balo J, Bajtai A, Szenda B. 1965. [Experimental adenomas of the kidney produced by chronic administration of lead phosphate.] Magyar Onkol 9:144-151. (Hungarian)
- \*Baloh RW, Spivey GH, Brown CP, et al. 1979. Subclinical effects of chronic increased lead absorption--a prospective study: 11. Results of baseline neurologic testing. J Occup Med 21:490-496.
- \*Baltrop D, Khoo HE. 1975. The influence of nutritional factors on lead absorption. Postgrad Med J 51:795-800.
- \*Baltrop D, Meek F. 1979. Effect of particle size on lead absorption from the gut. Arch Environ Health 34:280-285.
- \*Baltrop D, Strehlow CD, Thorton I, et al. 1974. Significance of high soil lead concentrations for childhood lead burdens. Environ Health Perspect 7:75-82.
- \*Barnes DG, Dourson M. 1988. Reference dose (RfD): Description and use in health risk assessments. U.S. Environmental Protection Agency. Regul Toxicol Pharmacol 8:471-486.
- \*Barnes RM. 1990. Childhood soil ingestion: How much dirt do kids eat? Anal Chem 62:1023-1033.
- \*Barratt CLR, Davies AG, Bansal MR, et al. 1989. The effects of lead on the male rat reproductive system. Andrologia 21:161-166.
- \*Barry PSI. 1975. A comparison of concentrations of lead in human tissue. Br J Ind Med 32:119-139.

# LEAD 480 8. REFERENCES

- \*Barry PSI. 1981. Concentrations of lead in the tissues of children. Br J Ind Med 38:61-71.
- \*Barton JC. 1984. Active transport of lead-210 by everted segments of rat duodenum. Am J Physiol 247:G193-G198.
- \*Barton JC, Conrad ME. 1981. Effect of phosphate on the absorption and retention of lead in the rat. Am J Clin Nutr 34:2192-2198.
- \*Barton JC, Conrad ME, Harrison L, et al. 1978a. Effects of calcium on the absorption and retention of lead. J Lab Clin Med 91:366-376.
- \*Barton JC, Conrad ME, Harrison L, et al. 1980. Effects of vitamin D on the absorption and retention of lead. Am J Physiol 238:Gl24-6130.
- \*Barton JC, Conrad ME, Nuby S, et al. 1978b. Effects of iron on the absorption and retention of lead. J Lab Clin Med 92:536-547.
- Barton JC, Huster WJ. 1987. Seasonal changes in lead absorption in laboratory rats. Environ Health Perspect 73:209-214.
- \*Battery Council International. 1992. 1990 National recycling rate study. Chicago, IL: Battery Council International.
- \*Battery Council International. 1998. 1996 National recycling rate study. Chicago: Battery Council International.[retrieval in progress]
- \*Battistuzzi G, Petrucci R, Silvagni L, et al. 1981. Delta-aminolevulinate dehydrase: A new genetic polymorphism in man. Ann Hum Gen 45:223-229.
- \*Batuman V, Landy E, Maesaka JK, et al. 1983. Contribution of lead to hypertension with renal impairment. N Engl J Med 309:17-21.
- \*Batuman V, Maesaka JK, Haddad B, et al. 1981. The role of lead in gout nephropathy. N Engl J Med 304:520-523.
- \*Batuman V, Wedeen RP, Bogden JD, et al. 1989. Reducing bone lead content by chelation treatment in chronic lead poisoning: An *in vivo* X-ray fluorescence and bone biopsy study. Environ Res 48:70-75.
- \*Bauchinger M, Dresp J, Schmid E, et al. 1977. Chromosome analyses of children after ecological lead exposure. Mut Res 56:75-79.
- \*Bauchinger M, Schmid E. 1972. Chromosomenanalvsen in Zellkulturen des chinesischen Hamsters nach Applikation von Bleiacetat. Mut Res 14:95-100. (German)
- Bauchinger M, Schmid E, Schmidt D. 1972. [Chromosome analysis of policemen with increased blood level.] Mutat Res 16:407-412. (German)
- \*Baum CR, Shannon MW. 1997. The lead concentration of reconstituted infant formula. J Toxicol Clin Toxicol 35(4):371-5.

# LEAD 481 8. REFERENCES

- Beach JR, Henning SJ. 1988. The distribution of lead in milk and the fate of milk lead in the gastrointestinal tract of suckling rats. Pediatr Res 23:58-62.
- \*Beek B, Obe G. 1974. Effect of lead acetate on human leukocyte chromosomes *in vitro*. Experientia 30:1006-1007.
- \*Beek B, Obe G. 1975. The human leukocyte test system: VI. The use of sister chromatid exchanges as possible indicators for mutagenic activities. Humangenetik 29:127-134.
- \*Bell RR, Spickett JT. 1981. The influence of milk in the diet on the toxicity of orally ingested lead in rats. Food Cosmet Toxicol 19:429-436.
- Bellinger DC. 1989. Prenatal/early postnatal exposure to lead and risk of developmental impairment. Birth Defects 25:73-97.
- \*Bellinger DC. 1995. Interpreting the literature on lead and child development: The neglected role of the "experimental system". Neurotoxicol Teratol 17:201-212.
- \*Bellinger DC Leviton A, Allred E, et al. 1994. Pre- and postnatal lead exposure and behavior problems in school-aged children. Environ Res 66:12-30.
- \*Bellinger DC, Leviton A, Needleman HL, et al. 1986a. Low-level lead exposure and infant development in the first year. Neurobehav Toxicol Teratol 8:151-161.
- \*Bellinger DC, Leviton A, Rabinowitz M, et al. 1986b. Correlates of low-level lead exposure in urban children at two years of age. Pediatrics 77:826-833.
- \*Bellinger DC, Leviton A, Watemaux C, et al. 1985b. Methodological issues in modeling the relationship between low-level lead exposure and infant development: Examples from the Boston lead study. Environ Res 38:119-129.
- \*Bellinger DC, Leviton A, Waternaux C, et al. 1985a. A longitudinal study of the developmental toxicity of low-level lead exposure in the prenatal and early postnatal periods. In: Lekkas TD, ed. International Conference on Heavy Metals in the Environment, Athens, Greece, September, Vol. 1. Edinburgh, United Kingdom: CEP Consultants, Ltd, 32-34.
- \*Bellinger DC, Leviton A, Waternaux C, et al. 1987a. Longitudinal analyses of prenatal and postnatal lead exposure and early cognitive development. N Engl J Med 316:1037-1043.
- \*Bellinger DC, Leviton A, Waternaux C, et al. 1988. Low-level lead exposure, social class, and infant development. Neurotoxicol Teratol 10:497-503.
- \*Bellinger DC, Leviton A, Waternaux C, et al. 1989a. Low-level lead exposure and early development in socioeconomically advantaged urban infants. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- \*Bellinger DC, Leviton A, Waternaux C, et al. 1989b. Low-level lead exposure, social class, and infant development. Neurotoxicol Teratol 10:497-504.

#### LEAD 482 8. REFERENCES

- \*Bellinger DC, Needleman HL. 1983. Lead and the relationship between maternal and child intelligence. J Pediatr 102:523-527.
- \*Bellinger DC, Needleman HL, Leviton A, et al. 1984. Early sensory-motor development and prenatal exposure to lead. Neurobehav Toxicol Teratol 6:387-402.
- \*Bellinger DC, Sloman J, Leviton A, et al. 1987b. Low level lead exposure and child development: Assessment at age 5 of a cohort followed from birth. In: Lindberg SE, Hutchinson TC, eds. International Conference on Heavy Metals in the Environment. New Orleans, LA, September, Vol. 1. Edinburgh, UK: CEP Consultants, Ltd., 49-53.
- \*Bellinger DC, Sloman J, Leviton A, et al. 1991. Low-level lead exposure and children's cognitive function in the preschool years. Pediatrics 87:219-227.
- \*Bellinger DC, Stiles KM, Needleman HL. 1992. Low-level lead exposure, intelligence and academic achievement: A long-term follow-up study. Pediatrics 90:855-861.
- \*Benetou-Marantidou A, Nakou S, Michelovannis J. 1988. Neurobehavioral estimation of children with life-long increased lead exposure. Arch Environ Health 43:392-395.
- \*Benkmann H-G, Bogdanski P, Goedde HW. 1983. Polymorphism of delta-aminolevulinic acid dehydratase in various populations. Hum Hered 33:62-64.
- Berg S, Jonsson A. 1984. Analysis of airborne organic lead. In: Grandjean P, ed. Biological effects of organolead compounds. Boca Raton, FL: CRC Press, 33-42.
- \*Bergomi M, Borelia P, Fantuzzi G, et al. 1989. Relationship between lead exposure indicators and neuropsychological performance in children. Dev Med Child Neurol 31:181-190.
- Beritic T. 1982. Lead neuropathy. CRC Crit Rev Toxicol 12:149-213.
- \*Bernard BP, Becker CE. 1988. Environmental lead exposure and the kidney. Clin Toxicol 26:1-34.
- \*Betts PR, Astley R, Raine DN. 1973. Lead intoxication in children in Birmingham. Br Med J 1:402-406.
- \*Beyer WN, Cromartie EJ. 1987. A survey of Pb, Cu, Zn, Cd, Cr, As, and Se in earthworms and soil from diverse sites. Environmental Monitoring Assessment 8:27-36.
- Bhattacharya A, Shukla R, Bornschein R, et al. 1988. Postural disequilibrium quantification in children with chronic lead exposure: A pilot study. Neurotoxicology 9:327-340.
- \*Bhattacharya A, Shukla R, Dietrich KN, et al. 1993. Functional implications of postural disequilibrium due to lead exposure. Neurotoxicology 14:179-190.
- \*Bhattacharya A, Smelser DT, Berger O, et al. 1998. The effect of succimer therapy in lead intoxication using postural balance as a measure: A case study in a nine year old child. Neurotoxicology (Little Rock) 19(1):57-64.

# LEAD 483 8. REFERENCES

- \*Biagini G, Caudarelia R, Vangelista A. 1977. Renal morphological and functional modification in chronic lead poisoning. In: Brown SS, ed. Clinical chemistry and chemical toxicology of metals. Elsevier/North-Holland Biomedical Press, 123-126.
- \*Bielarczyk H, Tian X, Suszkiw JB. 1996. Cholinergic denervation-like changes in rat hippocampus following developmental lead exposure. Brain Res 708(1-2):108-115.
- Bielarczyk H, Tomsig JL, Suszkiw JB. 1994. Perinatal low-level lead exposure and the hippocampal cholinergic system:selective reduction of muscarinic receptor and cholineacetyltransferase in the rat septum. Brain Res 643:211-217.
- \*Biggins PDE, Harrison RM. 1979. Atmospheric chemistry of automotive lead. Environ Sci Technol 13:558-565.
- \*Billick IH, Gray VE. 1978. Lead based paint poisoning research: Review and evaluation 1971-1977. Washington, DC: U.S. Department of Housing and Urban Development.
- \*Binder S, Sokal D, Maugham D. 1986. Estimating soil ingestion: The use of tracer elements in estimating the amount of soil ingestion by young children. Arch Environ Health 41:341-345.
- \*Birch J, Harrison RM, Laxen DPH. 1980. A specific method for 24-48 hour analysis of tetraalkyl lead in air. Sci Total Environ 14:31-42.
- \*Biswas P, Lin WY, Wu CY. 1992. Formation and emission of metabolic aerosols from incinerators. J Aerosol Sci 23(1):s273-s276.
- Bitschy S, Knutti R, Schlatter C. 1986. Studies on lead kinetics in man. Joint Meeting of the German Pharmacological Society and the Swiss Society for Pharmacology and Toxicology, Mannheim, West Germany, September 22-25, 1986. Naunyn-Schmiedeberg's Arch Pharmacol 334 (suppl):Rl8.
- \*Blake KCH, Barbezat GO, Mann M. 1983. Effect of dietary constituents on the gastrointestinal absorption of 203Pb in man. Environ Res 30:182-187.
- \*Blake KCH, Mann M. 1983. Effect of calcium and phosphorus on the gastrointestinal absorption of 203Pb in man. Environ Res 30:188-194.
- \*Blakley BR, Archer DL. 1982. Mitogen stimulation of lymphocytes exposed to lead. Toxicol Appl Pharmacol 62:183-189.
- \*Blakley BR, Archer DL, Osborne L. 1982. The effect of lead on immune and viral interferon production. Can J Comp Med 46:43-46.
- \*Blakley BR, Sisodia CS, Mukkur TK. 1980. The effect of methyl mercury, tetraethyl lead, and sodium arsenite on the humoral immune response in mice. Toxicol Appl Pharmacol 52:245-254.
- \*Bloch P, Garavaglia G, Mitchell G, et al. 1976. Measurement of lead content of children's teeth in situ by x-ray fluorescence. Phys Med Biol 20:56-63.

\*Bloom NS, Crecelius EA, 1987. Distribution of silver, mercury, lead, copper, and cadmium in Central Puget Sound sediments. Marine Chemistry 21:377-390.

Boeckx RL. 1986. Lead poisoning in children. Anal Chem 58:274A-287A.

Boeckx RL, Postl B, Coodin FJ. 1977. Gasoline sniffing and tetraethyl lead poisoning in children. Pediatrics 60:140-145.

\*Bogden JD, Kemp FW, Han S, et al. 1995. Dietary calcium and lead interact to modify maternal blood pressure, erythropoiesis, and fetal and neonatal growth in rats during pregnancy and lactation. J Nutr 125:990-1002.

\*Bolanowska W. 1968. Distribution and excretion of triethyllead in rats. Br J Ind Med 25:203-208.

\*Bolanowska W, Piotrowski J, Garczynski H. 1967. Triethyllead in the biological material in cases of acute tetraethyllead poisoning. Arch Toxicol 22:278-282.

\*Bolger PM, Carrington CD, Capar SG, et al. 1991. Reductions in dietary lead exposure in the United States. Chemical Speciation and Bioavailability 3(314):31-36.

\*Bolger PM, Yess NJ, Gunderson EL, et al. 1996. Identification and reduction of sources of dietary lead in the United States. Food Addit Contam 13(1):53-60.

Bolla-Wilson K, Bleecker ML, Agnew J. 1988. Lead toxicity and cognitive functioning: A dose response relationship. 16th Annual International Neuropsychological Society Meeting, January 27-30, 1988. J Clin Exp Neuropsychol 10:88.

\*Bonde JPE, Kolstad H. 1997. Fertility of Danish battery workers exposed to lead. Int J Epidemiol 26(6):1281-1288.

\*Bonithon-Kopp C, Huel G, Grasmick C, et al. 1986c. Effects of pregnancy on the inter-individual variations in blood lead levels of lead, cadmium and mercury. Biol Res Preg 7:37-42.

Bonithon-Kopp C, Huel G, Moreau T. 1986a. [Lead and psychomotor development in children: A critical analysis of arguments of epidemiologic origin.] Neuropsychiatr Enfanc Adolesc 34:383-394. (French)

\*Bonithon-Kopp C, Huel G, Moreau T, et al. 1986b. Prenatal exposure to lead and cadmium and psychomotor development of the child at 6 years. Neurobehav Toxicol Teratol 8:307-310.

\*Booker DV, Chamberlain AC, Newton D, et al. 1969. Uptake of radioactive lead following inhalation and injection. Br J Radiol 42:457-466.

Booze RM, Mactutus CF. 1990. Developmental exposure to organic lead causes permanent hippocampal damage in Fischer-344 rats. Experientia 46:292-297.

Borella P, Picco P, Masellis G. 1986. Lead content in abortion material from urban women in early pregnancy. Int Arch Occup Environ Health 57:93-99.

# LEAD 485 8. REFERENCES

- \*Borjesson J, Gerhardsson L, Schuetz A, et al. 1997. *In vivo* measurements of lead in fingerbone in active and retired lead smelters. Int Arch Occup Environ Health 69(2):97-105.
- \*Bornschein RL, Grote J, Mitchell T, et al. 1989. Effects of prenatal lead exposure on infant size at birth. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- Bornschein RL, Hammond PB, Dietrich KN, et al. 1985. The Cincinnati prospective study of low-level lead exposure and its effects on child development: Protocol and status report. Environ Res 38:4-18.
- \*Bornschein RL, Pearson D, Reiter L. 1980. Behavioral effects of moderate lead exposure in children and animal models: Part 1. Clinical studies: Part 2. Animal studies. CRC Crit Rev Toxicol 43-152.
- \*Bornschein RL, Succop PA, Krafft KM, et al. 1986. Exterior surface dust lead, interior house dust lead and childhood lead exposure in an urban environment. In: Hemphil DD, ed. Trace substances in environmental health. Vol. 20. Columbia, MO: University of Missouri 322-332.
- \*Boscolo P, Galli G, Iannaccone A, et al. 1981. Plasma renin activity and urinary kallikrein excretion in lead-exposed workers as related to hypertension and nephropathy. Life Sci 28:175-184.
- \*Bota V, Osan A, Mathe I, et al. 1982. [Experimental study on rats treated with lead.] Rev Med 28:175. (Rumanian)
- \*Boudene C, Malet D, Masse R. 1977. Fate of 210Pb inhaled by rats. Toxicol Appl Pharmacol 41:271-276.
- \*Bourgoin BP, Evans DR, Cornett JR, et al. 1993. Lead content in 70 brands of dietary calcium supplements. Am J Pub Health 83(8):1155-1160.
- \*Bourjeily N, Suszkiw JB. 1997. Developmental cholinotoxicity of lead: loss of septal cholinergic neurons and long-term changes in cholinergic innervation of the hippocampus in perinatally lead-exposed rats. Brain Res 771(2):319-328.
- Boyle EA. 1990. Temporal variability of lead in the western North Atlantic. Washington, DC: National Science Foundation, Division of Ocean Sciences.
- \*Bradley JE, Baumgartner RJ. 1958. Subsequent mental development of children with lead encephalopathy, as related to type of treatment. J Pediatr 53:311-315.
- \*Bradley JE, Powell AE, Niermann W, et al. 1956. The incidence of abnormal blood levels of lead in a metropolitan pediatric clinic: With observation on the value of coproporphyrinuria as a screening test. J Pediatr 49:1-6.
- Braithwaite RA. 1987. A survey of childhood exposure to environmental lead in Walsall: The importance of accuracy control. In: National Meeting of the Association of Clinical Biochemists, Eastbourne, England, UK, May 11-15, 1987: Ann Clin Biochem 24:S1-90-S1-91.
- \*Braithwaite RA, Brown SS. 1987. The need for accuracy in trace metal analysis: A case study of childhood exposure to lead. Journal of the University of Occupational and Environmental Health 9:35-49.

# LEAD 486 8. REFERENCES

- \*Braunstein GD, Dahlgren J, Loriaux DL. 1978. Hypogonadism in chronically lead-poisoned men. Infertility 1:33-51.
- \*Bress WC, Bidanset JH. 1991. Percutaneous *in vivo* and *in vitro* absorption of lead. Vet Hum Toxicol 33:212-214.
- \*Bressler, JP, Goldstein, GW. 1991. Mechanism of lead neurotoxicity. Biochem Pharmacol 41:479-484.
- \*Brewer GJ, Hill GM, Dick RD, et al. 1985. Interactions of trace elements: Clinical significance. J Am Coll Nutr 4:33-38.
- \*Brody DJ, Pirkle JL, Kramer RA, et al. 1994. Blood lead levels in the US population. Phase 1 of the Third National Health and Nutrition Examination Survey (NHANES III, 1988 to 1991). J Am Med Assoc 272:277-283.
- \*Bronner F, Pansu S, Stein WD. 1986. An analysis of intestinal calcium transport across the rat intestine. Am J Physiol 250:G561-G569
- \*Bruce WR, Heddle JA. 1979. The mutagenic activity of 61 agents as determined by the micronucleus, Salmonella and sperm abnormality assays. Can J Genet Cytol 21:319-334.
- \*Bruenger FW, Stevens W, Stover BJ. 1973. The association of 210Pb with constituents of erythrocytes. Health Phys 25:37-42.
- \*Brunekreff BD. 1984. The relationship between air lead and blood lead in children: A critical review. Sci Total Environ 38:79-123.
- \*Buc HA, Kaplan JC. 1978. Red-cell pyrimidine 5'-nucleotidase and lead poisoning. Clin Chim Acta 87:49-55.
- \*Buchet JP, Roels H, Bernard A, et al. 1980. Assessment of renal function of workers exposed to inorganic lead, cadmium, or mercury vapor. J Occup Med 22:741-750.
- Budnick L, Young H, Chang V, et al. 1986. Blood lead levels among office workers--New York City. MMWR 35:298-300.
- \*Bull RJ, Lutkenhoff SD, McCarty GE, et al. 1979. Delays in the postnatal increase of cerebral cyochrome concentrations in lead-exposed rats. Neuropharmacology 18:83-92.
- \*Bulsma JB, DeFrance HF. 1976. Cytogenetic investigations in volunteers ingesting inorganic lead. Int Arch Occup Environ Health 28:145-148.
- \*Bushnell PJ, Bowman RE. 1979a. Effects of chronic lead ingestion on social development in infant Rhesus monkeys. Neurobehav Toxicol 1:207-219.
- \*Bushnell PJ, Bowman RE. 1979b. Persistence of impaired reversal learning in young monkeys exposed to low levels of dietary lead. J Toxicol Environ Health 5:1015-1023.

# LEAD 487 8. REFERENCES

- \*Bushnell PJ, Bowman RE. 1979c. Reversal learning deficits in young monkeys exposed to lead. Pharmacol Biochem Behay 10:733-742.
- \*Bushnell PJ, Levin ED. 1983. Effects of zinc deficiency on lead toxicity in rats. Neurobehav Toxicol Teratol 5:283-288.
- \*Byczkowski JZ, Gearhart JM, Fisher JW. 1994. Occupational exposure of infants to toxic chemicals via breast milk. Nutrition 10(1):43-48.
- \*CAAA. 1990. Clean Air Act Amendments. Public Law Number 101-549. Section 220, 104 Statute 25000.
- \*Cake KM, Bowins RJ, Vaillancourt C, et al. 1996. Partition of circulating lead between serum and red cells is different for internal and external sources of exposure. Am J Ind Med 29:440-445.
- \*Calabrese EJ. 1978. Pollutants and high-risk groups: The biological basis of increased human susceptibility to environmental and occupational pollutants. New York, NY: John Wiley and Sons.
- \*Calabrese EJ, Barnes R, Stanek EJ III, et al. 1989. How much soil do young children ingest: an epidemiological study. Regul Toxicol Pharmacol 10:123-137.
- \*Calabrese EJ, Stanek EJ III, Pekow P, et al. 1997. Soil ingestion estimates for children residing on a Superfund site. Ecotoxicol Environ Saf 36:258-268.
- \*Campara P, D'Andrea F, Micciolo R, et al. 1984. Psychological performance of workers with blood-lead concentration below the current threshold limit value. Int Arch Occup Environ Health 53:233-246.
- \*Campbell BC, Beattie AD, Moore MR, et al. 1977. Renal insufficiency associated with excessive lead exposure. Br Med J 1:482-485.
- \*Campbell BC, Meredith PA, Moore MR, et al. 1984. Kinetics of lead following intravenous administration in man. Toxicol Lett 21:321-235.
- \*Campbell BC, Meredith PA, Scott JJC. 1985. Lead exposure and changes in the renin-angiotensin-aldosterone system in man. Toxicol Lett 25:25-32.
- Campbell JB, Woolley DE, Vijayan VK, et al. 1982. Morphometric effects of postnatal lead exposure on hippocampal development of the 15-day-old rat. Dev Brain Res 3:595-612.
- \*Capar SG, Rigsby EJ. 1989. Survey of lead in canned evaporated milk. J Assoc Off Anal Chem 72:416-417.
- Cardia P, Pau M, Ibba A, et al. 1989. Blood lead levels in children of S.W. Sardinia. Eur J Epidemiol 5:378-381.
- \*Carmignani M, Boscolo P, Preziosi P. 1988a. Cardiovascular actions of lead in rats as related to the level of chronic exposure. Arch Toxicol Supp 12:326-329.

# LEAD 488 8. REFERENCES

Carmignani M, Boscolo P, Sacchettoni-Logroscino G, et al. 1988b. Chronic lead treatment and ultrastructure of the testis in rats. Arch Toxicol Suppl 12:449-452.

\*Carpenter SJ. 1982. Enhanced teratogenicity of orally administered lead in hamsters fed diets deficient in calcium or iron. Toxicology 24:259-271.

Carr DS. 1981. Lead compounds (salts). In: Grayson M, ed. Kirk-Othmer encyclopedia of chemical technology. 3rd ed., Vol. 14. New York, NY: John Wiley and Sons, 162, 164, 167, 169.

\*Case JM, Reif CB, Timko A. 1989. Lead in the bottom sediments of Lake Nuangola and fourteen other bodies of water in Luzerne County, Pennsylvania. Journal of the Pennsylvania Academy of Science 63:67-72.

\*Casteel WS, Cowart RP, Weis CP, et al. 1997. Bioavailabilty of lead to juvenile swain dosed with soil from the Smuggler Mountain NLP site of Aspen, Colorado. Fund Appl Toxicol 36:177-187.

\*Castellino N, Aloj S. 1964. Kinetics of the distribution and excretion of lead in the rat. Br J Ind Med 21:308-314.

\*Casto BC, Meyers J, DiPaolo JA. 1979. Enhancement of viral transformation for evaluation of the carcinogenic potential of inorganic metal salts. Cancer Res 39:193-198.

Cavalleri A, Minoia C. 1987. Lead level of whole blood and plasma in workers exposed to lead stearate. Scand J Work Environ Health 13:218-220.

\*Cavalleri A, Minoia C, Pozzoli L, et al. 1978. Determination of plasma lead levels in normal subjects and in lead-exposed workers. Br J Ind Med 35:21-26.

\*CDC. 1985. Preventing lead poisoning in young children. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control. Publication No. 99-2230, 7-19.

\*CDC. 1990. Minutes of childhood lead poisoning prevention ad hoc committee, November 1 and 2, 1990. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control.

\*CDC. 1991. Preventing lead poisoning in young children. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention.

\*CDC. 1997a. Adult blood lead epidemiology and surveillance- United States Fourth Quarter 1996. Centers for Disease Control and Prevention. MMWR 46(16):358-359,367.

\*CDC. 1997b. Update: Blood lead levels. Centers for Disease Control and Prevention. MMWR 46(7):141-146.

\*CDC. 1997c. Screening young children for lead poisoning: Guidance for state and local public health officials. Centers for Disease Control and Prevention. Atlanta: U.S. Department of Health & Human Services.

# LEAD 489 8. REFERENCES

- \*CDC. 1997d. Children with elevated blood lead levels attributed to home renovation and remodeling activities. Centers for Disease Control and Prevention--- New York 1993-1994, MMWR 45(51&52):1120-1123.
- \*CDC. 1998. Lead poisoning associated with imported candy and powdered food coloring--California and Michigan. Centers for Disease Control and Prevention. MMWR 47(48):1041-1043.
- \*CELDS. 1990a. Computer-Environmental Legislative Data Systems. Urbana, IL. June 28, 1990.
- \*CELDS. 1990b. Computer-Environmental Legislative Data Systems. Urbana, IL. November 28, 1990.
- \*Cerklewski FL. 1979. Influence of dietary zinc on lead toxicity during gestation and lactation in the female rat. J Nutr 109:1703-1709.
- \*Cerklewski FL. 1980. Reduction in neonatal lead exposure by supplemental dietary iron during gestation and lactation in the rat. J Nutr 110:1453-1457.
- \*Cerklewski FL, Forbes RM. 1976. Influence of dietary zinc on lead toxicity in the rat. J Nutr 106:689-696.
- \*Chai S, Webb RC. 1988. Effects of lead on vascular reactivity. Environ Health Perspect 78:85-89.
- \*Chakraborti D, DeJonghe WRA, Mol WE, et al. 1984. Determination of ionic alkyllead compounds in water by gas chromatography/atomic absorption spectrometry. Anal Chem 56:2692-2697.
- \*Chamberlain A, Heard C, Little MJ, et al. 1978. Investigations into lead from motor vehicles. Harwell, United Kingdom: United Kingdom Atomic Energy Authority. Report no. AERE-9198. 1979. The dispersion of lead from motor exhausts. Philos Trans R Soc Lond A 290:557-589.
- \*Chamberlain A, Heard C, Little P, et al. 1979. The dispersion of lead from motor exhausts. Philos Trans R Soc Lond A 290:557-589.
- \*Chamberlain AC. 1983. Effect of airborne lead on blood lead. Atmos Environ 17:677-692.
- \*Chan TL, Lippman M. 1980. Experimental measurements and empirical modeling of the regional deposition of inhaled particles in humans. Am Ind Hyg Assoc J 47:399-408.
- \*Chan WH, Tang JS, Chung DH, et al. 1986. Concentration and deposition of trace metals in Ontario 1982. Water Air Soil Pollut 29:373-389.
- \*Chandra SV, Ali MM, Saxena DK, et al. 1981. Behavioral and neurochemical changes in rats simultaneously exposed to manganese and lead. Arch Toxicol 49:49-56.
- \*Chandra SV, Murthy RC, Saxena DK, et al. 1983. Effects of pre- and postnatal combined exposure to Pb and Mn on brain development in rats. Ind Health 21:273-279.
- \*Chaney RL, Mielke HW, Sterret SB. 1989. Speciation, mobility and bioavailability of soil lead. Environ Geochem Health 9:105-129.

- \*Charney E, Sayre J, Coulter M. 1980. Increased lead absorption in inner city children: Where does the lead come from? Pediatrics 65:226-231.
- Chartsias B, Colombo A, Hatzichristidis D, et al. 1986. The impact of gasoline lead on human blood lead: First results of the Athens lead experiment. Sci Total Environ 55:275-282.
- \*Chau YK, Wong PTS, Bengert GA, et al. 1979. Determination of tetraalkyl- lead compounds in water, sediments, and fish samples. Anal Chem 51:186-188.
- \*Chau YK, Wong PTS, Kramar O, et al. 1980. Occurrence of tetraalkylead compounds in the aquatic environment. Bull Environ Contam Toxicol 24:265-269.
- \*Chen HH, Ma T, Hume AS, et al. 1998. Developmental lead exposure alters the distribution of protein kinase C activity in the rat hippocampus. Biomed Environ Sci 11:61-69.
- Chenard L, Turcotte F, Cordier S. 1987. Lead absorption by children living near a primary copper smelter. Can J Public Health 78:295-298.
- \*Chettle DR, Scott MC, Somervaille LJ. 1991. Lead in bone: Sampling and quantitation using K X-rays excited by 109Cd. Environ Health Pespect 91:45-55.
- \*Chia KS, Jeyaratnam J, Lee J, et al. 1995b. Lead-induced nephropathy: Relationship between various biological exposure indices and early markers of nephrotoxicity. Am J Ind Med 27:883:895.
- \*Chia KS, Jeyaratnam J, Tan C, et al. 1995a. Glomerular function of lead-exposed workers. Toxicol Letters 77:319-328.
- \*Chia KS, Mutti A, Tan C, et al. 1994. Urinary N-acetyl-D-glucosaminidase activity in workers exposed to inorganic lead. Occup Environ Med 51:125-129.
- \*Chia SE, Chia HP, Ong CN, Jeyaratnam J. 1996b. Cumulative concentrations of blood lead and postural stability. Occup Environ Med 53(4):264-268.
- \*Chia SE, Chia KS, Chia HP, et al. 1996a. Three-year follow-up of serial nerve conduction among lead-exposed workers. Scand J Work Environ Health 22(5):374-80.
- Chiang HC, Chang PY. 1989. [Lead intoxication in shipscrapping employees in Taiwan.] Kao-hsiung I Hsueh K'o Hsueh Tsa Chih 5:284-290. (Chinese)
- \*Chiaradia M, Gulson BL, MacDonald K. 1997. Contamination of houses by workers occupationally exposed in a lead-zinc-copper mine and impact on blood lead concentrations in the families. Occup Environ Med 54(2):117-124.
- \*Chisolm JJ Jr. 1962. Aminoaciduria as a manifestation of renal tubular injury in lead intoxication and a comparison with patterns of aminoaciduria seen in other diseases. J Pediatr 60:1-17.
- \*Chisolm JJ Jr. 1965. Chronic lead intoxication in children. Dev Med Child Neurol 7:529-536.

- \*Chisolm JJ Jr. 1968. The use of chelating agents in the treatment of acute and chronic lead intoxication in childhood. J Pediatr 73:1-38.
- \*Chisolm JJ Jr. 1981. Dose-effect relationships for lead in young children: Evidence in children for interactions among lead, zinc, and iron. In: Lynam DR, Piantanida LG, Cole JF, eds. Environmental Lead: Proceedings on the Second International Symposium on Environmental Lead Research, December, 1978, Cincinnati, Ohio. New York, NY: Academic Press, 1-7.
- \*Chisolm JJ Jr. 1986. Removal of lead paint from old housing: The need for a new approach. Am J Public Health 76:236-237.
- Chisolm JJ Jr, Brown DH. 1979. Micromethod for zinc protoporphyrin in erythrocytes: Including new data on the absorptivity of zinc protoporphyrin and new observation in neonates and sickle cell disease. Biochem Med 22:214-237.
- \*Chisolm JJ Jr, Harrison HC, Eberlein WR, et al. 1955. Aminoaciduria, hypophosphatemia, and rickets in lead poisoning: Study of a case. Am J Dis Child 89:159-168.
- \*Chisolm JJ Jr, Harrison HE. 1956. The exposure of children to lead. Pediatrics 18:943-958.
- \*Chisolm JJ Jr, Mellits Ed, Barrett MB. 1976. Interrelationships among blood lead concentration, quantitative daily ALA-U and urinary lead output following calcium EDTK. In: Nordberg GF, ed. Proceedings of third meeting of the subcommittee on the toxicology of metals under the Permanent Commission and International Association on Occupational Health, November 1974, Tokyo, Japan. Amsterdam, Netherlands: Elsevier Publishing Co, 416-433.
- \*Chisolm JJ, Thomas DJ, Hamill TG. 1985. Erythrocyte porphobilinogen synthase activity as an indicator of lead exposure to children. Clin Chem 31:601-605.
- Chmielnicka J, Zareba G, Nasiadek. 1994. Combined effect of tin and lead on heme biosynthesis in rats. Ecotox Environ Safety 29:165-173.
- \*Choie DD, Richter GW. 1978. G2 sub-population in mouse liver induced into mitosis by lead acetate. Cell Tissue Kinet 11:235-239.
- \*Chowdhury AR, Chinoy NJ, Gautam AK, et al. 1986. Effect of lead on human semen. Adv Contracept Deliv Syst 2:208-211.
- \*Chowdhury AR, Dewan A, Ghandhi DN. 1984. Toxic effect of lead on the testes of rat. Biomed Biochim Acta 43:95-100.
- Chowdhury AR, Rao RV, Gautam AK, et al. 1987. Functional changes of testes in lead intoxicated rats. Ind Health 25:55-62.
- \*Christoffersson JO, Ahlgren L, Schutz A, et al. 1986. Decrease of skeletal lead levels in man after end of occupational exposure. Arch Environ Health 41:312-318.
- \*Cikrt M, Tichy M. 1975. Role of bile in intestinal absorption of 203Pb in rats. Experientia 31:1320-3121.

#### LEAD 492 8. REFERENCES

- Clark ARL. 1977. Placental transfer of lead and its effects on the newborn. Postgrad Med J 53:674-678.
- \*Clark CS, Bornschein RL, Succop P, et al. 1985. Conditions and type of housing as an indicator of potential environmental lead exposure and pediatric blood lead levels. Environ Res 38:46-53.
- \*Clarkson TW, Kench JE. 1958. Uptake of lead by human erythrocytes in vitro. Biochem J 69:432-439.
- \*Clausing P, Brunekreef B, van Wijen JH. 1987. A method for estimating soil ingestion by children. Int Arch Occup Environ Health 59:73-82.
- \*Clewell HJ III, Andersen M. 1985. Risk assessment extrapolations and physiological modeling. Toxicol Ind Health 1(4):111-131.
- \*Clewell HJ III, Andersen ME. 1985. Risk assessment extrapolations and physiological modeling. Toxicol Ind Health 1:111-113.
- \*Clewell HJ, Lee T, Carpenter RL. 1994. Sensitivity of physiologically based pharmacokinetic models to variation in model parameters: methylene chloride. Risk Analysis 14:521-531.
- \*Coate D, Fowles R. 1989. Is there statistical evidence for a blood lead-blood pressure relationship? Journal of Economics 8:173-184.
- \*Cocco P, Carta P, Flore C, et al. 1996. Mortality of lead smelter workers with the glucose-6-phosphate dehydrogenase-deficient phenotype. Cancer Epidemiol Biomarkers Prev 5(3):223-225.
- \*Cocco P, Hua F, Boffetta P, et al. 1997. Mortality of italian lead smelter workers. Scand J Work Environ Health 23(1):15-23.
- \*Cocco PL, Cocco E, Anni MS, et al. 1991. Occupational exposure to lead and blood cholesterol in glucose-6-phosphate dehydrogenase deficient and normal subjects. Res Commun Chem Pathol Pharmacol 72(1):81-95.
- Cohen J. 1987. Respiratory deposition and absorption of lead particles. Memo to Fred Miller and Ted Martonen. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. October 7, 1987.
- Cohen J. 1988a. Dietary lead estimates for case-study exposure analyses. Memo to the files. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. May 16, 1988.
- \*Cohen J. 1988b. Revisions to dietary lead estimates for case-study exposure analyses. Memo to the files. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. September 9, 1988.
- \*Cohn, J, Cox C, Cory-Slechta DA. 1992. The effects of lead exposure on learning in a multiple repeated acquisition and performance schedule. Neurotoxicology 14:329-346.
- \*Cohne AJ, Roe FJC. 1991. Review of lead toxicology relevant to the safety assessment of lead acetate as a hair colouring. Fd Chem Toxic 29(7):485-507.

- \*Collins MF, Hrdina PD, Whittle E, et al. 1982. Lead in blood and brain regions of rats chronically exposed to low doses of the metal. Toxicol Appl Pharmacol 65:314-322.
- \*Congiu L, Corongiu FP, Dore M, et al. 1979. The effect of lead nitrate on the tissue distribution of mercury in rats treated with methylmercury chloride. Toxicol Appl Pharmacol 51:363-366.
- Cooke RA. 1986. Blood lead and carboxyhemoglobin levels in roadside workers. J Soc Occup Med 36:102-103.
- \*Cools A, Salle HJA, Verberk MM, et al. 1976. Biochemical response of male volunteers ingesting inorganic lead for 49 days. Int Arch Occup Environ Health 38:129-139.
- \*Cooney GH, Bell A, McBride W, et al. 1989a. Low-level exposures to lead: The Sydney lead study. Dev Med Child Neurol 31:640-649.
- Cooney GH, Bell A, McBride W, et al. 1989b. Neurobehavioral consequences of prenatal low level exposures to lead. Neurotoxicol Teratol 11:95-104.
- \*Cooper GP, Fox DA, Howell WE, et al. 1980. Visual evoked responses in rats exposed to heavy metals. In: Merigan WH, Weiss B, eds. Neurotoxicity of the visual system. New York, NY: Raven Press, 203-218.
- \*Cooper WC. 1976. Cancer mortality patterns in the lead industry. Ann NY Acad Sci 271:250-259.
- \*Cooper WC. 1981. Mortality in employees of lead production facilities and lead battery plants, 1971-1975. In: Lynam DR, et al. eds. Environmental Lead: Proceedings of the Second International Symposium on Environmental Lead Research, December, 1978, Cincinnati, OH. New York, NY: Academic Press, 111-143.
- \*Cooper WC. 1988. Deaths from chronic renal disease in US battery and lead production workers. Environ Health Perspect 78:61-63.
- \*Cooper WC, Gaffey WR. 1975. Mortality of lead workers. J Occup Med 17:100-107.
- \*Cooper WC, Wong O, Kheifets L. 1985. Mortality among employees of lead battery plants and lead producing plants, 1947-1980. Scand J Work Environ Health 11:331-345.
- Cory-Slechta DA. 1990a. Alterations in tissue Pb distribution and hematopoietic indices during advanced age. Arch Toxicol 64:31-37.
- \*Cory-Slechta DA. 1990b. Lead exposure during advanced age: Alterations in kinetics and biochemical effects. Toxicol Appl Pharmacol 104:67-78.
- \*Cory-Slechta DA. 1995a. Relationships between lead-induced learning impairments and changes in dopaminergic, cholinergic, and glutamatergic neurotransmitter system functions. Annu Rev Pharmacol Toxicol 35:391-415.
- \*Cory-Slechta DA. 1995b. MK-801 subsensitivity following postweaning lead exposure. Neurotoxicology 16:83-96.

# LEAD 494 8. REFERENCES

- \*Cory-Slechta DA. 1997a. Postnatal lead exposure and MK-801 sensitivity. Neurotoxicology 18(1):209-220.
- \*Cory-Slechta DA. 1997b. Relationships between Pb-induced changes in neurotransmitter system function and behavioral toxicity. Neurotoxicology 18(3):673-688.
- \*Cory-Slechta DA, Bissen ST, Young AM, et al. 1981. Chronic post-weaning lead exposure and response duration performance. Toxicol Appl Pharmacol 60:78-84.
- \*Cory-Slechta DA, Flaugher CL, Evans SB, et al. 1997d. Susceptibility of adult rats to lead-induced changes in NMDA receptor complex function. Neurotoxicol Teratol 19(6):517-530.
- \*Cory-Slechta DA, Garcia-Osuna M, Greenamyre TJ. 1997b. Lead-induced changes in NMDA receptor binding: correlations with learning accuracy and with sensitivity to learning impairments caused by MK-801 and NMDA administration. Behav Brain Res 85:161-174.
- \*Cory-Slechta DA, McKoy L, Richfield EK. 1997c. Time course and regional basis of Pb-induced changes in MK-801 binding: Reversal by chronic treatment with the dopamine agonist apomorphine but not the D1 agonist SKF-82958. J Neurochem 68:2012-2023.
- \*Cory-Slechta DA, O'Mara DJ, Brockel BJ. 1998. Nucleus accumbens dopaminergic mediation of fixed interval schedule-controlled behavior and its modulation by low-level lead exposure. J Pharmacol Exp Ther 286:794-805.
- \*Cory-Slechta DA, Pazmino R, Bare C. 1997a. The critical role of nucleus accumbens dopamine systems in the mediation of fixed interval schedule-controlled operant behavior. Brain Res 764:248-256.
- \*Cory-Slechta DA, Pokora MJ. 1995. Lead-induced changes in muscarinic cholinergic sensitivity. Neurotoxicology 16:33-348.
- \*Cory-Slechta DA, Pokora MJ, Fox, RAV, et al. 1996. Lead-induced changes in dopamine D1 sensitivity: Modulation by drug discrimination training. Neurotoxicology 17:445-458.
- \*Cory-Slechta DA, Pokora MJ, Widzowski DV. 1992. Postnatal lead exposure induces supersensitivity to the stimulus properties of a D2-D3 agonist. Brain Res 598:162-172.
- \*Cory-Slechta DA, Thompson T. 1979. Behavioral toxicity of chronic postweaning lead exposure in the rat. Toxicol Appl Pharmacol 47:151-159.
- \*Cory-Slechta DA, Weiss B, Cox C. 1983. Delayed behavioral toxicity of lead with increasing exposure concentrations. Toxicol Appl Pharmacol 71:342-352.
- \*Cory-Slechta DA, Weiss B, Cox C. 1987. Mobilization and redistribution of lead over the course of calcium disodium ethylenediamine tetraacetate chelation therapy. J Pharmacol Exp Ther 243:804-813.
- \*Cory-Slechta DA, Weiss B, Cox C. 1989. Tissue distribution of Pb in adult vs. old rats: A pilot study. Toxicology 59:139-150.

\*Cory-Slechta DA, Weiss B, Cox D. 1985. Performance and exposure indices of rats exposed to low concentrations of lead. Toxicol Appl Pharmacol 78:291-299.

Cory-Slechta DA, Widzowski DV. 1991. Low level lead exposure increases sensitivity to the stimulus properties of dopamine D1 and D2 agonists. Brain Res 553:65-74.

Coscia GC, Discalzi G, Ponzetti C. 1987. Immunological aspects of occupational lead exposure. Med Lav 78:360-364.

\*Costa M, Cantoni O, DeMars M, et al. 1982. Toxic metals produce S-phase-specific cell cycle block. Res Commun Chem Pathol Pharmacol 38:405-419.

\*Coste J, Mandereau L, Pessione F, et al. 1991. Lead-exposed workmen and fertility: A cohort study on 354 subjects. Eur J Epidemiol 7:154-158.

\*Counter SA, Buchanan LH, Ortega F, et al. 1997. Normal auditory brainstem and cochlear function in extreme pediatric plumbism. J Neurol Sci 152(1):85-92.

\*CPSC. 1973. Consumer Product Safety Commission. Code of Federal Regulations. 16 CFR 1500.17.

\*CPSC. 1977a. Ban of lead-containing products bearing lead-containing paint. Consumer Product Safety Commission. Code of Federal Regulations. 16 CFR 1303.

CPSC. 1977b. Lead containing paint and certain consumer products having lead containing paint: Part 1303. Consumer Product Safety Commission. Federal Register 42:44193-44199.

\*CPSC 1996a. CPSC finds lead poisoning hazard for young children in imported vinyl miniblinds. United States Consumer Product Safety Commission. http://www.cpsc.gov/cpscpub/prerel/prhtml/96150.html

\*CPSC. 1996b. News from CPSC. CPSC finds lead poisoning hazard for young children in imported miniblinds. U. S. Consumer Product Safety Commission. Release No. 96-150, June 25, 1996.

\*Cramer K, Goyer RA, Jagenburg R, et al. 1974. Renal ultrastructure, renal function, and parameters of lead toxicity in workers with different periods of lead exposure. Br J Ind Med 31:113-127.

Cremer JE. 1965. Toxicology and biochemistry of alkyllead compounds. Occup Health Res 17:14-19.

Cremer JE, Callaway S. 1961. Further studies on the toxicity of some tetra and trialkyl lead compounds. Br J Ind Med 18:277-282.

\*Crump K. 1997. Evaluation of the Boston study of effectiveness of soil abatement in reducing children's blood lead, with particular emphasis upon the EPA (1996) reevaluation. ICF Kaiser, Ruston, Louisiana. Report to Seeger, Potter, Richardson, Luxton, Joselow & Brooks. March 13, 1997.

\*Cullen MR, Kayne RD, Robins JM. 1984. Endocrine and reproductive dysfunction in men associated with occupational inorganic lead intoxication. Arch Environ Health 39:431-440.

Cumings JN. 1959. Heavy metals and the brain: Part 3. Lead. Oxford: Blackwell Scientific Press, 93155.

# LEAD 496 8. REFERENCES

Cunningham M. 1986. Chronic occupational lead exposure: The potential effect on sexual function and reproductive ability in male workers. American Association of Occupational Health Nursing Journal 34:277-279.

Dabeka RW. 1989. Survey of lead, cadmium, cobalt, and nickel in infant formulas and evaporated milks and estimation of dietary intakes of the elements by infants 0-12 months old. Sci Total Environ 89:279-289.

\*Dabeka RW, Karpinski KF, McKenzie AD, et al. 1988. Survey of lead and cadmium in human milk and correlation of levels with environmental and food factors. Sci Total Environ 71:65-66.

\*Dabeka RW, McKenzie AD. 1987. Lead, cadmium, and fluoride levels in market milk and infant formulas in Canada. J Assoc Off Anal Chem 7:754-775.

\*Dabeka RW, McKenzie AD. 1988. Lead and cadmium levels in commercial infant foods and dietary intake by infants 0-1 year old. Food Addit Contam 5:333-342.

\*Dabeka RW, McKenzie AD, Lacroix GMA. 1987. Dietary intakes of lead, cadmium, arsenic and fluoride by Canadian adults: A 24-hour duplicate diet study. Food Addit Contam 4:89-102.

Dalley JW, Gupta PK, Hung CT. 1990. A physiological pharmacokinetic model describing the disposition of lead in the absence and presence of L-ascorbic acid in rats. Toxicol Lett 50:337-348.

\*Dalpra L, Tibiletti MG, Nocera G, et al. 1983. SCE analysis in children exposed to lead emission from a smelting plant. Mut Res 120:249-256.

\*Damm D, Grandjean P, Lyngbye T, et al. 1993. Early lead exposure and neonatal jaundice: relation to neurobehavioral performance at 15 years of age. Neurotoxicol Teratol 15:173-181.

\*Danse IHR, Garb LG, Moore RH. 1995. Blood lead surveys of communities in proximity to lead-containing mill tailings. Am Ind Hyg Assoc 56:384-393.

\*Davey FD, Breen KC. 1998. The interaction between chronic low-level lead and the amyloid precursor protein. Amyloid: Int J. Clin Invest 5:90-98.

Davies DJ, Thornton I, Watt JM, et al. 1990. Lead intake and blood lead in two-year-old U.K urban children. Sci Total Environ 90:13-29.

Davies DJ, Watt JM, Thornton I. 1987. Lead levels in Birmingham dusts and soils. Sci Total Environ 67:177-185.

\*Davis A, Ruby MV, Bergstrom PD. 1992. Bioavailability of arsenic and lead in soils from the Butte, Montana, mining district. Environmental Science Technology 26:461-468.

\*Davis A, Ruby MV, Bergstrom, PD. 1994. Factors controlling lead bioavailabiltiy in the Butte mining district, Montana, USA. Environmental Geochemistry and Health 16:147-157.

\*Davis JM, Otto DA, Weil DE, et al. 1990. The comparative development neurotoxicity of lead in humans and animals. Neurotoxicol Teratol 12:215-229.

# LEAD 497 8. REFERENCES

- \*Davis JM, Svendsgaard DJ. 1987. Lead and child development. Nature 329:297-300.
- \*Davis JM, Svendsgaard DJ. 1990. Nerve conduction velocity and lead: A critical review and meta-analysis. In: Johnson BL, et al., eds. Advances in neurobehavioral toxicology. Chelsea, MI: Lewis Publishers, 353-376.
- \*Davis JR, Avram MJ. 1978. A comparison of the stimulatory effects of cadmium and zinc on normal and lead-inhibited human erythrocytic delta-aminolevulinic acid dehydratase activity *in vitro*. Toxicol Appl Pharmacol 44:181-190.
- Davis MJ. 1990. Risk assessment of the developmental neurotoxicity of lead. Neurotoxicology 11:285-292.
- Davis RY, Horton AW, Lawson EE, et al. 1963. Inhalation of tetramethyl lead and tetraethyl lead. Arch Environ Health 6:473-479.
- \*de Kort WLAM, Verschoor MA, Wibowo AAE, et al. 1987. Occupational exposure to lead and blood pressure: A study of 105 workers. Am J Ind Med 11:145-156.
- \*de la Burde B, Choate MS Jr. 1972. Does asymptomatic lead exposure in children have latent sequelae? J Pediatr 81:1088-1091.
- \*de la Burde B, Choate MS Jr. 1975. Early asymptomatic lead exposure and development at school age. J Pediatr 87:638-642.
- \*DeJonghe WRA, Adams FC. 1986. Biogeochemical cycling of organic lead compounds. Adv Environ Sci Technol 17:561-594.
- \*DeJonghe WRA, Chakraborti D, Adams FC. 1981. Identification and determination of individual tetraalkyl lead species in air. Environ Sci Technol 15:1217-1222.
- \*Deknudt G, Colle A, Gerber GB. 1977. Chromosomal abnormalities in lymphocytes from monkeys poisoned with lead. Mut Res 45:7-83.
- \*Deknudt G, Deminatti M. 1978. Chromosome studies in human lymphocytes after *in vitro* exposure to metal salts. Toxicology 10:67-75.
- \*Deknudt G, Gerber GB. 1979. Chromosomal aberrations in bone-marrow cells of mice given a normal or a calcium-deficient diet supplemented with various heavy metals. Mut Res 68:163-168.
- \*Delves HT, Campbell MJ. 1988. Measurements of total lead concentrations and of lead isotope ratios in whole blood by use of inductively coupled plasma source mass spectrometry. J Analytical Atomic Spectrometry 3:343-348.
- DeMichele SJ. 1984. Nutrition of lead. Comp Biochem Physiol 78A:401-408.
- \*DeRosa CT, Choudhury H, Peirano WB. 1991. An integrated exposure/pharmacokinetic-based approach to the assessment of complex exposures: Lead: A case study. Toxicol Ind Health 7(4):231-247.

#### LEAD 498 8. REFERENCES

- \*DeSilva PE. 1981. Determination of lead in plasma and studies on its relationship to lead in erythrocytes. Br J Ind Med 38:209-217.
- Deveaux P, Kibel MA, Dempster WS, et al. 1986. Blood lead levels in preschool children in Cape Town. S Afr Med J 29:421-424.
- \*Dhawan M, Flora SJS, Singh S, et al. 1989. Chelation of lead during, co-exposure to ethanol. Biochem Int 19:1067-1075.
- Dhir H, Sharma A, Talukler G. 1985. Alteration of cytotoxic effects of lead through interaction with other heavy metals. Nucleus 28:68-89.
- \*Dieter MP, Matthews HB, Jeffcoat RA, et al. 1993. Comparison of lead bioavailability in F344 rats fed lead acetate, lead oxide, lead sulfide, or lead ore concentrate from Skagway, Alaska. J Toxicol Environ Health 39:79-93.
- \*Dietrich KN, Berger OG, Succop PA. 1993b. Lead exposure and the motor development status of urban six-year-old children in the Cincinnati Prospective study. Pediatrics 91:301-307.
- \*Dietrich KN, Berger OG, Succop PA, et al. 1993a. The developmental consequences of low to moderate prenatal and postnatal lead exposure: Intellectual attainment in the Cincinnati lead study cohort following school entry. Neurotoxicol Teratol 15:37-44.
- \*Dietrich KN, Krafft KM, Bier M, et al. 1986. Early effects of fetal lead exposure: Neurobehavioral findings at 6 months. International Journal of Biosocial and Medical Record 8:151-168.
- \*Dietrich KN, Krafft KM, Bier M, et al. 1989. Neurobehavioral effects of foetal lead exposure: The first year of life. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- \*Dietrich KN, Krafft KM, Bornschein RL, et al. 1987a. Low-level fetal lead exposure effect on neurobehavioral development in early infancy. Pediatrics 80:721-730.
- \*Dietrich KN, Krafft KM, Shukla R, et al. 1987b. The neurobehavioral effects of early lead exposure. Monogr Am Assoc Ment Defic 8:71-95.
- \*Dietrich KN, Succop PA, Berger OG, et al. 1991. Lead exposure and the cognitive development of urban preschool children: The Cincinnati cohort lead study at age 4 years. Neurotoxicol Teratol 13:203-211.
- \*Dietrich KN, Succop PA, Berger OG, et al. 1992. Lead exposure and the central auditory precessing abilities and cognitive development of urban children: The Cincinnati lead study cohort at age 5 years. Neurotoxicol Teratol 14:51-56.
- \*Ding Y, Vaziri ND, Gonick HC. 1998. Lead-induced hypertension: ii. response to sequential infusions of l- arginine, superoxide dismutase, and nitroprusside. Environmental Research 76/2:107-113.
- \*DOI. 1981. Mineral industry surveys: Lead industry in May 1981. Washington, DC: U.S. Department of Interior, Bureau of the Mines.

# LEAD 499 8. REFERENCES

- \*DOI. 1987a. Mineral industry surveys: Lead industry in May 1987. Washington, DC: U.S. Department of Interior, Bureau of the Mines.
- \*DOI. 1987b. Mineral industry surveys: Washington, DC: U.S. Department of Interior, Bureau of the Mines. Lead industry Summary 1987.
- \*DOI. 1990. Mineral industry surveys: Washington, DC: U.S. Department of Interior, Bureau of the Mines. Lead industry in August 1990.
- \*DOI. 1992. U.S. Bureau of Mines annual report 1991. Volume 1. (in preparation). Washington, DC: U.S. Department of Interior, Bureau of the Mines. (Personal communication with Bill Woodbury, October 15, 1992).
- \*DOI/USGS. 1997a. Mineral industry surveys. U.S. Department of the Interior U.S. Geological Survey.
- \*DOI/USGS. 1997b. Mineral industry surveys. U.S. Department of the Interior U.S. Geological Survey.
- Donald JM, Cutler MG, Moore MR. 1986a. Effects of 1.2 microM lead in the laboratory mouse: Developmental and behavioral consequences of chronic treatment. Neuropharmacol 25:1395-1401.
- \*Donald JM, Cutler MG, Moore MR. 1986b. Effects of lead in the laboratory mouse: 1. Influence of pregnancy upon absorption, retention, and tissue distribution of radiolabeled lead. Environ Res 41:420-431.
- \*Drasch G, Wanghofer E, Roider G. 1997. Are blood, urine, hair, and muscle valid biomonitors for the internal burden of men with the heavy metals mercury, lead and cadmium? Trace Elements and Electrolytes 14(3):116-123.
- \*Drasch GA, Bohm J, Baur C. 1987. Lead in human bones: Investigation of an occupationally nonexposed population in southern Bavaria (F.R.G.): I. Adults. Sci Total Environ 64:303-315.
- \*Drasch GA, Kretschmer E, Lochner C. 1988. Lead and sudden infant death: Investigations on blood samples of SID babies. Eur J Pediatr 147:79-84.
- \*Draski LJ, Burright RG, Donovick PJ. 1989. The influence of prenatal and/or postnatal exposure to lead on behavior of preweanling mice. Physiol Behav 45:711-715.
- Ducoffre G, Claeys F, Bruaux P. 1990. Lowering time trend of blood lead levels in Belgium since 1978. Environ Res 51:25-34.
- \*Duggan MJ. Inskip MJ. 1985. Childhood exposure to lead in surface dust and soil: A community health problem. Public Health Rev 13:1-54.
- \*Dunkel VC, Pienta RJ, Sivak A, et al. 1981. Comparative neoplastic transformation responses of Balb/3T-3 cells, Syrian hamster embryo cells, and Rauscher murine leukemia virus-infected Fischer 344 rat embryo cells to chemical carcinogens. J Nat Cancer Inst 67:1303-1315.

#### LEAD 500 8. REFERENCES

- \*Dunkel VC, Zieger E, Brusick D, et al. 1984. Reproducibility of microbial mutagenicity assays: 1. Tests with Salmonella typhimurim and Escherichia coli using a standardized protocol. Environ Mutagen 6 (Suppl. 2):1-254.
- \*DuVal GE, Fowler BA. 1989. Preliminary purification and characterization studies of a low molecular weight, high affinity cytosolic lead-binding protein in rat brain. Biochem Biophys Res Commun 159:177-184.
- \*Dyatlov VA, Platoshin AV, Lawrence DA, et al. 1998. Lead potentiates cytokine- and glutamate-mediated increases in permeability of blood-brain barrier. Neurotoxicology 19:283-292.
- \*Eaton AD, Clescer LS, Greenberg AE. 1995a. Method 3500-Pb D. Dithizone Method, Standard Methods for the Examination of Water and Wastewater, American Public Health Association, Washington, DC.
- \*Eaton AD, Clesceri LS, Greenberg AE. 1995b. Method 3111, Metals by Flame Atomic Absorption Spectrometry, Standard Methods for the Examination of Water and Wastewater, American Public Health Association, Washington, DC.
- \*Eaton AD, Clesceri LS, Greenberg AE. 1995c. Method 3113, Metals by Electrothermal Atomic Absorption Spectrometry, Standard Methods for the Examination of Water and Wastewater, American Public Health Association, Washington, DC.
- \*Eaton AD, Clesceri LS, Greenberg AE. 1995d. Method 3120 Metals by Plasma Emission Spectroscopy, Standard Methods for the Examination of Water and Wastewater, American Public Health Association, Washington, DC.
- \*Eckel WP, Jacob TA. 1988. Ambient levels of 24 dissolved metals in U.S. surface and ground waters. In: American Chemical Society Division of Environmental Chemistry, 196th Meeting 28:371-372.
- \*Ehle A. 1986. Lead neuropathy and electrophysiological studies in low level lead exposure: A critical review. Neurotoxicity 7:203-216.
- \*Eisenreich SJ, Looney BB, Thornton JD. 1981. Airborne organic contaminants in the Great Lakes ecosystem. Environ Sci Technol 15:30-38.
- \*Eisenreich SJ, Metzer NA, Urban NR, et al. 1986. Response of atmospheric lead to decreased use of lead in gasoline. Environ Sci Technol 20:171-174.
- \*Eisler R. 1988. Lead hazards to fish, wildlife, and invertebrates: A synoptic review. Laurel, MD: U.S. Department of the Interior, Fish and Wildlife Service. Biol Report 85 (1.14).
- \*Eldred RA, Cahill TA. 1994. Trends in elemental concentrations of fine particles at remote sites in the United Sates of America. Atmos Environ 28:1009-1019.
- Elinder CG, Friberg L, Lind B, et al. 1986. Decreased blood levels in residents of Stockholm for the period 1980-1984. Scand J Work Environ Health 12:114-120.

# LEAD 501 8. REFERENCES

- Elinder CG, Lind B, Nilsson B, et al. 1988. Wine an important source of lead exposure. Food Addit Contam 5:641-644.
- \*Ellen G, Van Loon JW. 1990. Determination of cadmium and lead in foods by graphite furnace atomic absorption spectrometry with Zeeman background correction: Test with certified reference materials. Food Addit Contam 7:265-273.
- \*Ellenhorn MJ, Barceloux DG, eds. 1988. Medical toxicology: Diagnosis and treatment of human poisoning. New York, NY: Elsevier, 1031-1041.
- \*Elwood PC. Davey-Smith G, Oldham PD, et al. 1988. Two Welsh surveys of blood lead and blood pressure. Environ Health Perspect 78:119-121.
- \*Emory E, Patillo R, Archibold E, et al. 1999. Neuro-behavioral effects of low level lead exposure in human newborns. American Journal of Obstretrics and Gynecology, in press.
- Englert N, Krause C, Thron H-L, et al. 1987. Studies on lead exposure of selected population groups in West Berlin, West Germany. Trace Elem Med 4:112-116.
- \*EPA. 1973a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 80.2.
- \*EPA. 1973b. Banned hazardous substances: Banned toys and other banned articles intended for use by children. U.S. Environmental Protection Agency. Federal Register 38:27017-27018.
- \*EPA. 1973c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 136.3.
- \*EPA. 1974. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 80, App. B.
- \*EPA. 1975. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.2.
- \*EPA. 1976a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60; Subpart P.
- \*EPA. 1976b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60; Subpart R.
- \*EPA. 1976c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 142.14 142.15.
- \*EPA. 1977. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60; Subpart L.
- \*EPA. 1978a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 116.4.
- \*EPA. 1978b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 455.20.
- EPA. 1979a. The environmental lead problem: An assessment of lead in drinking water from a multimedia perspective. Washington, DC: U.S. Environmental Protection Agency. EPA 570/9-79-003, NTIS PB-296556.

#### LEAD 502 8. REFERENCES

- \*EPA. 1979b. Toxic pollutants. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 401.15.
- \*EPA. 1979c. Water-related environmental fate of 129 priority pollutants. Volume 1: Introduction and technical background, metals and inorganic pesticides and PCBs. Washington, DC: U.S. Environmental Protection Agency. EPA-440/4-79-029a, 13-1 43-19.
- \*EPA. 1980a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60; Subpart CC.
- \*EPA. 1980b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.4.
- \*EPA. 1980c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.33.
- \*EPA. 1980d. Water quality criteria documents: Availability. U.S. Environmental Protection Agency. Federal Register 45:79318-79340.
- \*EPA. 1980e. STORET. Washington, DC: Monitoring and Data Support Division, U.S. Environmental Protection Agency.[retrieval in progress]
- \*EPA. 1981a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.32.
- \*EPA. 1981b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261, Appendix VII.
- \*EPA. 1982a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60; Subpart KK.
- \*EPA. 1982b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 80.3.
- \*EPA. 1982c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 264.94.
- \*EPA. 1982d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 420, Subparts B-F, I-J, and L.
- \*EPA. 1982e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 423 and App. A.
- \*EPA. 1982f. An exposure and risk assessment for lead. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards, Monitoring and Data Support Division. EPA 440/4-85/010, NTIS PB85-220606.
- \*EPA. 1983a. Methods for chemical analysis of water and wastes. Methods 239.1 and 239.2. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Monitoring and Support Laboratory. EPA Report No. 600/4-79-020
- \*EPA. 1983b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60.489.
- \*EPA. 1983c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 468.

#### LEAD 503 8. REFERENCES

- \*EPA. 1984a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60; Subpart LL.
- \*EPA. 1984b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 421, Subparts C, E, G, and H.
- \*EPA. 1984c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 421; Subparts J, K, and M.
- \*EPA. 1984d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261; Appendix IX.
- \*EPA. 1984e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 461.
- \*EPA. 1985a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 80.20.
- \*EPA. 1985b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 117.3.
- \*EPA. 1985c. Lead exposures in the human environment. Research Triangle Park, NC: U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office. EPA/600/D-86/185, PB86-241007.
- \*EPA. 1985d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.6.
- \*EPA. 1985e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 421, Subpart I (421.92 421.96).
- \*EPA. 1985f. Water quality criteria: Availability of documents, U. S. Environmental Protection Agency. Federal Register 50:30784-30796.
- \*EPA. 1985g. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.51.
- \*EPA. 1985h. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 464.
- \*EPA. 1985i. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 471.
- \*EPA. 1986a. Air quality criteria for lead. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office. EPA 600/8-83-028F.
- \*EPA. 1986b. Determination of reportable quantities for hazardous substances. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 117.
- \*EPA. 1986c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.5.
- \*EPA. 1986d. Superfund record of decision (EPA Region 5): Forest waste disposal site, Genesee County, Michigan. PB87-189890.

# LEAD 504 8. REFERENCES

- \*EPA. 1986e. Test methods for evaluating solid waste SW-846: Physical/chemical methods. Method Nos. 7420 and 7421. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.
- \*EPA. 1987a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 264, Appendix IX.
- \*EPA. 1987b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.32.
- \*EPA. 1987c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.43.
- \*EPA. 1987d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 50.12.
- \*EPA. 1988a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 372.65.
- \*EPA. 1988b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261, Appendix VIII.
- \*EPA. 1989a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 302.4.
- EPA. 1989b. Evaluation of the potential carcinogenicity of lead compounds: In support of reportable quantity adjustments pursuant to CERCLA Section 102, external review draft. March 1989 EPA/600/889/045A, NTIS PB89-181366/AS.
- \*EPA. 1989c. Exposure factors handbook. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-89/043.
- \*EPA. 1989d. Interim final guidance for soil ingestion rates. Memorandum from J. W. Porter, Assistant Administrator, OSWR to Regional Administrators. Washington, DC: U.S. Environmental Protection Agency, OSWER Directive 9850.4.
- \*EPA. 1989e. Interim methods for development of inhalation reference concentrations. Washington DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-86032a.
- \*EPA. 1989f. National primary drinking water regulations. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141, 142.
- \*EPA. 1989g. Review of the national ambient air quality standard for lead: Exposure analysis, methodology and validation. OAQPS staff report. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. EPA-450/2-89-011.
- \*EPA. 1989h. Supplement to the 1986 EPA air quality criteria for lead. Vol. 1: Addendum. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-89/049A, ECAO-R-0297, NTIS PB89-181374.
- \*EPA. 1989i. The Toxics Release Inventory: A National Perspective, 1987. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances, Economics and Technology Division.

# LEAD 505 8. REFERENCES

- \*EPA. 1990. Standards of performance for volatile organic compounds (VOC) emissions from synthetic organic chemical manufacturing industry (SOCMI) distillation operation. U. S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60.667.
- \*EPA. 1990a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60.667.
- \*EPA. 1990b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141.42.
- \*EPA. 1990c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.24, Table 1.
- \*EPA. 1990d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.2.
- \*EPA. 1990e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.35.
- \*EPA. 1990f. Health effects assessment summary tables. Cincinnati, OH: U.S. Environmental Protection Agency. Office of Health and Environmental Assessment, Environmental Assessment and Criteria Office.
- \*EPA. 1990g. Air Quality Criteria for Lead: Addendum. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-89/049F, NTIS PB91-138420.
- \*EPA. 1991a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 141, Subpart I (40 CFR 141.80 40 CFR 141.90).
- \*EPA. 1991b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 142.19.
- \*EPA. 1991c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 266, Appendices IV and VII.
- \*EPA. 1991d. Maximum contaminant level goals and national primary drinking water regulations for lead and copper. Federal Register 56:26461-26564.
- \*EPA. 1992. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 261.3.
- \*EPA. 1993a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 60.707.
- \*EPA. 1993b. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 257, Appendix I.
- \*EPA. 1993c. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 258, Appendix I & Appendix II.
- \*EPA . 1993d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 258.40.
- \*EPA. 1993e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 455.50 (Tables 4-6).
- \*EPA. 1993f. U.S. Environmental Protection Agency. Federal Register. 58 FR 35314. June 30, 1993.

# LEAD 506 8. REFERENCES

- \*EPA. 1993g. National air pollutant emission trends, 1900-1992. U.S. Environmental Protection Agency, Technical Support Division, Emission Inventory Branch, Research Triangle Park, NC. Report No. EPA-454/R-93-032.
- \*EPA. 1994a. Guidance manual for the integrated exposure uptake biokinetic model for lead in children. U.S. Environmental Protection EPA/540/R-93/081, PB93-963510.
- \*EPA. 1994b. Technical support document: Parameters and equations used in integrated exposure uptake biokinetic model for lead in children (v0.99d). EPA/540/R-94/040, PB94-963505.
- \*EPA. 1994c. Validation strategy for the integrated exposure uptake biokinetic model for lead in children. U.S. Environmental Protection Agency. EPA 540/R-94-039. PB94-963504.
- \*EPA. 1994d. Methods for derivation of inhalation reference concentrations and application of inhalation dosimetry. U.S. Environmental Protection Agency. EPA/600/8-90/066F.
- \*EPA. 1994e. Method 6020: Indutively Coupled Plasma-Mass Spectrometry, revision 0 (1994), SW-846, Test Methods for Evaluating Solid Waste, Volume 1A: Laboratory Manual, Physical/Chemical Methods, United States Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC.
- \*EPA. 1994f. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 63.106.
- \*EPA. 1994g. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 80.40
- \*EPA. 1994h. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.40.
- \*EPA. 1994i. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.42.
- \*EPA. 1994j. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268.48
- \*EPA. 1995a. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 421, Subparts P-AB, and AE.
- \*EPA. 1995b. Guidance for assessing chemical contaminant data for use in fish advisories. U.S. Environmental Protection Agency Publication No. EPA 823-R-95-007, 2nd ed., Office of Science and Technology, Office of Water, USEPA, Washington, DC. September 1995.
- \*EPA. 1995c. Report on the national survey of lead based paint in housing base report. U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. EPA 747-R-95-003. <a href="http://www.hud.gov/lea/leadwnlo.html">http://www.hud.gov/lea/leadwnlo.html</a>.
- \*EPA. 1996a. Bioavailability of lead in soil samples from the Jasper County, Missouri Superfund Site. U.S. Environmental Protection Agency Region 8. Document Control No. 04800-030-0161.
- \*EPA. 1996b. Bioavailability of lead in soil samples from the New Jersey Zinc NPL Site Palmerton, Pennsylvania. U.S. Environmental Protection Agency Region 8. Document Control No. 04800-030-0162.

# LEAD 507 8. REFERENCES

- \*EPA. 1996c. Bioavailability of lead in slag and soil samples from the Murray Smelter Superfund Site. U.S. Environmental Protection Agency Region 8. Document Control No. 04800-030-0163.
- \*EPA. 1996d. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 268, Appendix XI.
- \*EPA. 1996e. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 745.
- \*EPA. 1996f. U.S. Environmental Protection Agency. Federal Register. 61 FR 3832. February 2, 1996.
- \*EPA. 1996g. U.S. Environmental Protection Agency. Drinking Water Regulations and Health Advisories.
- \*EPA. 1996h. National Air Quality and Emissions Trends Report 1995. Office of Air Quality Planning and Standards. U. S. Environment Protection Agency.
- \*EPA. 1996i. Urban soil lead abatement demonstration project. United States Environmental Protection Agency. Office of Research and Development, Washington, D.C. EPA/600/P-93/001af.
- \*EPA. 1997. U.S. Environmental Protection Agency. Code of Federal Regulations. 40 CFR 80.22
- \*EPA. 1998a. Lead; requirements for hazard education before renovation of target housing; final rule. U.S. Environmental Protection Agency. Federal Register. 63 FR 29908. June 1, 1998.
- \*EPA. 1998b. Lead; identification of dangerous levels of lead; notice of proposed rulemaking. U.S. Environmental Protection Agency. Federal Register. 63 FR 30302. June 3, 1998.
- \*EPA. 1998c. Management and disposal of lead-based paint debris; proposed rule. U.S. Environmental Protection Agency. Federal Register. 63 FR 70190. December 18, 1998.
- \*EPA. 1998d. Temporary suspension of toxicity characteristic rule for specified lead-based paint debris; proposed rule. U.S. Environmental Protection Agency. Federal Register. 63 FR 70233. December 18, 1998.
- \*EPA. 1998e. Lead-based paint poisoning prevention in certain residential structures. U.S. Environmental Protection Agency. Code of Federal Regulations. 440 CFR 745.
- \*EPA. 1998f. Listing of fish and wildlife advisories 1997 (for lead). U.S. Environmental Protection Agency Office of Water (Washington, DC).
- \*Erenberg G, Rinsler SS, Fish BG. 1974. Lead neuropathy and sickle cell disease. Pediatrics 54:438-441.
- \*Erkkila J, Armstrong R, Riihimaki V, et al. 1992. *In vivo* measurements of lead in bone at four anatomical sites: long term occupational and consequent endogenous exposure. Br J Ind Med 49:631-644.
- \*Ernhart CB. 1988. Cofactors in research on the environmental toxicology of childhood: Issues and examples from lead effects studies. In: Environmental toxicology of childhood. University of Nebraska, Children and the Law Series.

# LEAD 508 8. REFERENCES

- \*Ernhart CB, Green T. 1990. Low-level lead exposure in prenatal and early preschool periods: Language development. Archives of Environmental Health 45:342-354.
- \*Ernhart CB, Landa B, Schell NB. 1981. Subclinical levels of lead and developmental deficit--a multivariate follow-up reassessment. Pediatrics 67:911-919.
- \*Ernhart CB, Morrow-Tlucak M, Marler MR, et al. 1987. Low level lead exposure in the prenatal and early preschool periods: Early preschool development. Neurotoxicol Teratol 9:259-270.
- \*Ernhart CB, Morrow-Tlucak M, Wolf AW. 1988. Low level lead exposure and intelligence in the preschool years. Sci Total Environ 71:453-459.
- \*Ernhart CB, Wolf AW, Kennard MJ, et al. 1985. Intrauterine lead exposure and the status of the neonate. In: Lekkas TD, ed. International Conference on Heavy Metals in the Environment, Athens, Greece. September, Vol.1. Edinburgh, United Kingdom: CEP Consultants, Ltd. 35-37.
- \*Ernhart CB, Wolf AW, Kennard MJ, et al. 1986. Intrauterine exposure to low levels of lead: The status of the neonate. Arch Environ Health 41:287-291.
- \*ESA. 1998. LeadCare childhood blood lead testing. ESA, Inc. product literature, <a href="http://www.esainc.com/esaproducts/esaleadcare.html">http://www.esainc.com/esaproducts/esaleadcare.html</a>.
- \*Escribano A, Revilla M, Hernandez ER, et al. 1997. Effect of lead on bone development and bone mass: a morphometric, densitometric, and histomorphometric study in growing rats. Calcif Tissue Int 60(2):200-203.
- \*Eskew AE, Crutcher JC, Zimmerman SL, et al. 1961. Lead poisoning resulting from illicit alcohol consumption. J Forensic Sci 6:337-350.
- \*Evans RD, Rigler FH. 1985. Long distance transport of anthropogenic lead as measured by lake sediments. Water Air Soil Pollut 24:141-151.
- \*Everson J, Patterson CC. 1980. "Ultra-clean" isotope dilution/mass spectrometric analyses for lead in human blood plasma indicate that most reported values are artificially high. Clin Chem 26:1603-1607.
- \*Ewers U, Brockhaus A, Dolgner R, et al. 1990. Levels of lead and cadmium in blood of 55-66 year old women living in different areas of Northrhine-Westphalia-Chronological trend 1982-1988. Zentralblatt fur Hygiene und Umveltmedizin 189:405-418.
- Ewers U, Brockhaus A, Freier I, et al. 1987. [Role of environmental dust as source of exposure to lead and cadmium in children and adults living in polluted areas.] Bochum, West Germany: Congress of the German Society for Hygiene and Microbiology, Section Hygiene and Public Health, October 2-5, 1985. Zentrabi Bakteriol Mikrobiol Hyg [B] 183:485. (German)
- \*Ewers U, Stiller-Winkler R, Idel H. 1982. Serum immunoglobulin, complement C3, and salivary IgA level in lead workers. Environ Res 29:351-357.
- Ewert T, Beginn U, Winneke G, et al. 1986. [Sensory nerve conduction and visual and somatosensory evoked potential in children exposed to lead.] Nervenarzt 57:465-471. (German)

# LEAD 509 8. REFERENCES

- \*Exon JH, Koller LD, Kerkvliet NI. 1979. Lead-cadmium interaction: Effects on viral-induced mortality and tissue residues in mice. Arch Environ Health 34:469-475.
- \*Factor-Litvak P, Graziano JH, Kline JK, et al. 1991. A prospective study of birthweight and length of gestation in population surrounding a lead smelter in Kosovo, Yugoslavia. Int J Epidemiol 20:722-728.
- \*Factor-Litvak P, Kline JK, Popovac D, et al. 1996. Blood lead and blood pressure in young children. Epidemiology 7(6):633-637.
- \*Fahim MS, Fahim Z, Hall DG. 1976. Effects of subtoxic lead levels on pregnant women in the state of Missouri. Res Commun Chem Pathol Pharmacol 13:309-331.
- \*Fahim MS, Khare NK. 1980. Effects of subtoxic levels of lead and cadmium on urogenital organs of male rats. Arch Androl 4:357.
- \*Faith RE, Luster MI, Kimmel CA. 1979. Effect of chronic developmental lead exposure on cell-mediated immune functions. Clin Exp lmmunol 35:413-420.
- \*Fanning D. 1988. A mortality study of lead workers, 1926-1985. Arch Environ Health 43:247-251.
- Farkas WR, Fischbein A, Solomon S, et al. 1987. Elevated urinary excretion of beta-aminoisobutyric acid and exposure to inorganic lead. Arch Environ Health 42:96-99.
- \*Fayerweather WE, Karns ME, Nuwayhid IA, et al. 1991. An epidemiologic study of cancer risk following exposure to organic lead among the DuPont Company's chamber works employees. Dupont Company, Human Resources, Epidemiology Section Medical Division, Wilmington, DE.
- \*Fayerweather WE, Karns ME, Nuwayhid IA, et al. 1997. Case-control study of cancer risk in tetraethyl lead manufacturing. Am J Ind Med 31:28-35.
- FDA. 1972a. U.S. Department of Health and Human Services, Food and Drug Administration. Code of Federal Regulations. 21 CFR Part 191.
- FDA. 1972b. U.S. Department of Health and Human Services, Food and Drug Administration. Federal Register 37:16078-16079.
- \*FDA. 1992a. Lead in ceramic foodware; revised compliance policy guide; availability. Department of Health and Human Services, Food and Drug Administration, Washington, DC. Federal Register 57:29734.
- \*FDA. 1992b. Written communication (August 21) to Roberta Wedge, Clement International Corporation, regarding dietary lead intakes as determined by FDA's total diet study for all groups from FY 1989 to the present. Department of Health and Human Services, Food and Drug Administration, Washington, DC.
- \*FDA. 1994. Action Levels for Poisonous or Deleterious Substances in Human Food and Animal Feed. Department of Health and Human Services. Public Health Service. Food and Drug Administration.

- \*FDA. 1995. Substances prohibited from use in human food. Substances prohibited from indirect addition to human food through food-contact surfaces. U.S. Food and Drug Administration. Code of Federal Regulations. 21 CFR 189.240.
- \*FDA. 1996. Tin-coated lead foil capsules for wine bottles. U. S. Food and Drug Administration. Code of Federal Regulations. 21 CFR 189.301.
- \*FDA. 1998. Direct food substances affirmed as generally recognized as safe. U.S. Food and Drug Administration. Code of Federal Regulations. 21 CFR 184.
- FEDRIP. 1998. Federal Research in Progress. Dialog Information Services, Inc., July 1998.
- \*Fell GS. 1984. Review article: Lead toxicity: Problems of definition and laboratory evaluation. Ann Clin Biochem 21:453-460.
- \*Ferguson SA. Bowman RE. 1990. Effects of postnatal lead exposure on open field behavior in monkeys. Neurotoxicol Teratol 12:91-97.
- \*Ferguson SA, Felipa HN, Bowman RE. 1996. Effects of acute treatment with dopaminergic drugs on open field behavior of adult monkeys treated with lead during the first year postpartum. Neurotoxicol Teratol 18:181-188.
- Fergusson DM, Fergusson JE. Horwood LJ, et al. 1988a. A longitudinal study of dentine lead levels, intelligence, school performance and behavior. Part I. Dentine lead levels and exposure to environmental risk factors. J Child Psychol Psychiatry 29:781-792.
- Fergusson DM, Fergusson JE, Horwood LJ, et al. 1988b. A longitudinal study of dentine lead levels, intelligence, school performance and behavior: Part II. Dentine lead and cognitive ability. J Child Psychol Psychiatry 29:793-810.
- Fergusson DM, Fergusson JE, Horwood LJ, et al. 1988c. A longitudinal study of dentine lead levels, intelligence, school performance and behavior: Part III. Dentine lead levels and attention activity. J Child Psychol Psychiatry 29:811-809.
- Ficek W. 1994. Heavy metals and the mammalian thymus: *in vivo* and *in vitro* investigations. Toxicol Ind Health 10:191-201.
- \*Fischbein A, Anderson KE, Sassa S. et al. 1981. Lead poisoning from do-it-yourself heat guns for removing lead-based paint: Report of two cases. Environ Res 24:425-431.
- \*Fischbein A, Tsang P, Luo J-CJ, et al. 1993. Phenotypic aberrations of CD3+ and CD4+ cells and functional impairments of lymphocytes at low-level occupational exposure to lead. Clin Immunol Immunopathol 66:163-168.
- \*Fischbein A, Wallace J, Sassa S, et al. 1992. Lead poisoning from art restoration and pottery work unusual exposure source and household risk. J Environ Path Toxicol Oncol 11(1):7-11.
- Fisher-Fischbein J, Fischbein A, Meimick HD, et al. 1987. Correlation between biochemical indicators of lead exposure and semen quality in a lead-poisoned firearms instructor. JAMA 257:803-805.

# LEAD 511 8. REFERENCES

- \*Fitchko J, Hutchinson TC. 1975. A comparative study of heavy metal concentrations in river mouth sediments around the Great Lakes. J Great Lakes Res 1:46-78.
- \*Flanagan PR, Hamilton DL, Haist J, et al. 1979. Inter-relationships between iron and absorption in iron-deficient mice. Gastroenterology 77:1074-1081.
- \*Flegal AR, Smith DR. 1995. Measurements of environmental lead contamination and human exposure. Rev Environ Contam Toxicol 143:1-45.
- Flegal AR, Smith DR, Elias RW. 1990. Lead contamination in food. Adv Environ Sci Technol 23:85-120.
- \*Flora SJS, Jeevaratnam K, Kumar D. 1993. Preventive effects of sodium molybdate in lead intoxication in rats. Ecotoxicol Environ Safety 26:133-137.
- \*Flora SJS, Tandon SK. 1987. Effect of combined exposure to lead and ethanol on some biochemical indices in the rat. Biochem Pharm 36:537-541.
- \*Foman SJ. 1966. Body composition of the infant (Part I: The male reference infant). In: Falkner F, editor. Human Development. Philadelphia, PA: WB Saunders, pp. 239-246.
- \*Foman, SJ, Haschke F, Ziegler EE et al. 1982. Body composition of reference children from birth to age 10 years. American Journal of Clinical Nutrition 35:1169-1175.
- \*Forbes GB, Reina JC. 1972. Effect of age on gastrointestinal absorption (Fe, Sr, Pb) in the rat. J Nutr 102:657-652.
- \*Forni A, Camiaghi G, Sechi GC. 1976. Initial occupational exposure to lead: Chromosome and biochemical findings. Arch Environ Health 31:73-78.
- \*Forni A, Sciame A, Bertazzi PA, ct al. 1980. Chromosome and biochemical studies in women occupationally exposed to lead. Arch Environ Health 35:139-146.
- \*Foster WG. 1992. Reproductive toxicity of chronic lead exposure in the female Cynomolgus monkey. Rep Toxicol 6:123-131.
- \*Foster WG, McMahon A, Rice DC. 1996. Sperm chromatin structure is altered in cynomolgus monkeys with environmentally relevant blood lead levels. Toxicol Ind Health 12(5):723-735.
- \*Foster WG, Singh A, McMahon A, et al. 1998. Chronic lead exposure effects in the cynomolgus monkey (macaca fascicularis) testis. Ultrastruct Pathol 22(1):63-71.
- \* Fowler BA. 1989. Biological roles of high affinity metal-binding proteins in mediating cell injury. Comments Toxicol 3:27-46.
- \* Fowler BA. 1992. Role(s) of lead-binding proteins (PbBP) in the renal and neurotoxic effects of lead in the rat. In: Beck, BD. Symposium overview: an update on exposure and effects of lead. Fundam Appl Toxicol 18:1-16.

### LEAD 512 8. REFERENCES

- \* Fowler BA, DuVal G. 1991. Effects of lead on the kidney: Roles of high-affinity lead-binding proteins. Environ Health Perspectives 91:77-89.
- \* Fowler BA, Kimmel CA, Woods JS, et al. 1980. Chronic low-level lead toxicity in the rat: III. An integrated assessment of long-term toxicity with special reference to the kidney. Toxicol Appl Pharmacol 56:59-77.
- \*Fox DA, Campbell ML, Blocker YS. 1997. Functional alterations and apoptotic cell death in the retina following developmental or adult lead exposure. Neurotoxicology 18(3):645-664.
- \*Fox DA, Chu LWF. 1988. Rods are selectively altered by lead: II. Ultrastructure and quantitative histology. Exp Eye Res 46:613-625.
- \*Fox DA, Farber DB. 1988. Rods are selectively altered by lead: I. Electrophysiology and biochemistry. Exp Eye Res 46:597-611.
- \*Fox DA, Katz LM. 1992. Developmental lead exposure selectively alters the scotopic ERG component of dark and light adaptation and increases rod calcium content. Vision Res 32:249-255.
- \*Fox DA, Lewkowski JP, Copper GP. 1977. Acute and chronic effects of neonatal lead exposure on development of the visual evoked response in rats. Toxicol Appl Pharmacol 49:449-461.
- \*Fox DA, Rubinstein SD. 1989. Age-related changes in retinal sensitivity, rhodopsin content and rod outer segment length in hooded rats following low-level lead exposure during development. Exp Eye Res 48:237-249.
- \*Fox DA, Srivastava D. 1995. Molecular mechanism of the lead-induced inhibition of rod cGMP phosphodiesterase. Toxicol Letters 82/83:263-270.
- \*Fox DA, Wright AA, Costa LG. 1982. Visual acuity deficits following neonatal lead exposure: Cholinergic interactions. Neurobehav Toxicol Teratol 4:689-693.
- Franks PA, Laughlin NK, Dierschke DJ, et al. 1989. Effects of lead on luteal function in rhesus monkeys. Biol Reprod 41:1055-1062.
- \*Freeman GB, Dill JA, Johnson JD, et al. 1996. Comparative absorption of lead from contaminated soil and lead salts by weahling Fischer 344 rats. Fund Appl Toxicol 33:109-119.
- \*Freeman GB, Johnson JD, Killinger JM, et al. 1992. Relative bioavailability of lead from mining waste soil in rats. Fund Appl Toxicol 19:388-398.
- \*Freeman GB, Johnson JD, Liao SC, et al. 1994. Absolute bioavailability of lead acetate and mining waste lead in rats. Toxicology 91:151-163.
- Frenzel RW, Witmer GW, Starkey EE. 1990. Heavy metal concentrations in a lichen of Mt. Rainer and Olympic National Parks, Washington, USA. Bull Environ Contam Toxicol 44:158-164.
- \*Frisancho AR, Ryan AS. 1991. Decreased stature associated with moderate blood lead concentrations in Mexican-American children. Am J Clin Nutr 54:16-19.

# LEAD 513 8. REFERENCES

- Froines JR, Lui WCV, Hinds WC, et al. 1986. Effect of aerosol size on the blood lead distribution of industrial workers. Am J Ind Med 9:227-237.
- \*Froom P, Kristal-Boneh E, Benbassat J, et al. 1998. Predictive values of determinations of zinc protoporphyrin for increase blood lead concentrations. Clin Chem 44:1283-1288.
- \*FSTRAC. 1988. Summary of State and Federal Drinking Water Standards and Guidelines. Federal-State Toxicology and Regulatory Alliance Committee, Chemical Communication Subcommittee.
- \*FSTRAC. 1995. Summary of state and federal drinking water standards and guidelines. U.S. Environmental Protection Agency. Contaminant Policy and Communications Subcommittee. Federal-State Toxicology and Risk Analysis Committee (FSTRAC). September 12, 1995.
- \*Fu H, Boffetta P. 1995. Cancer and occupational exposure to inorganic lead compouds: A meta-analysis of published data. Occup Environ Med 52(2):73-81.
- \*Fukunaga M. Kurachi Y, Mizuguchi Y. 1982. Action of some metal ions at yeast chromosomes. Chem Pharm Bull 30:3017-3019.
- \*Fullmer CS, Rosen JF. 1990. Effect of dietary calcium and lead status on intestinal calcium absorption. Environ Res 51:91-99.
- \*Fulton M, Raab G. Thomson G, et al. 1987. Influence of blood lead on the ability and attainment of children in Edinburgh. Lancet 1:1221-1226.
- \*Gale TF. 1978. A variable embryotoxic response to lead in different strains of hamsters. Environ Res 17:325-333.
- \*Gant VA. 1938. Lead poisoning. Ind Med 7:679-699.
- \*Garber BT, Wei E. 1974. Influence of dietary factors on the gastrointestinal absorption of lead. Toxicol Appl Pharmacol 27:685-691.
- \*Garrettson LK. 1990. Lead. In: Haddad LM, Winchester JF, eds. Clinical management of poisoning and drug overdose. 2nd ed. Philadelphia, PA: W.B. Saunders Company, 18, 1017-1023.
- Gartrell MJ, Craun JC, Podrebarac DS, et al. 1985. Pesticides, selected elements, and other chemicals in adult total diet samples, October 1979-September 1980. J Assoc Off Anal Chem 68:1184-1197.
- \*Gartrell MJ, Craun JC, Podrebarac DS, et al. 1986a. Pesticides, selected elements, and other chemicals in infant and toddler total diet samples, October 1980-March 1982. J Assoc Off Anal Chem 69:123-145.
- \*Gartrell MJ, Craun JC, Podrebarac DS. et al. 1986b. Pesticides, selected elements, and other chemicals in adult total diet samples, October 1980-March 1982. J Assoc Off Anal Chem 69:146-161.
- \*Gartside PS. 1988. The relationship of blood lead levels and blood pressure in NHANES II: Additional calculations. Environ Health Perspect 78:31-34.

# LEAD 514 8. REFERENCES

- \*Gasiorek K, Bauchinger M. 1981. Chromosome changes in human lymphocytes after separate and combined treatment with divalent salts of lead, cadmium, and zinc. Environ Mut 3:513-518.
- \*Gatsonis CA, Needleman HL. 1992. Recent epidemiologic studies of low-level lead exposure and the IQ of children: A meta-analytic review. In: Needleman HL, ed. Human lead exposure. Boca Raton, FL:CRC Press, 243-255.
- \*Gelman BB, Michaelson IA, Bus JS. 1978. The effect of lead on oxidative hemolysis and erythrocyte defense mechanisms in the rat. Toxicol Appl Pharmacol 45:119-129.
- \*Gennart J-P, Bernard A, Lauwerys R. 1992a. Assessment of thyroid, testes, kidney and autonomic nervous system function in lead-exposed workers. Int Arch Occup Environ Health 64:49-57.
- \*Gennart J-P, Buchet J-P, Roels H, et al. 1992b. Fertility of male workers exposed to cadmium, lead or manganese. Am J Epidemiol 135:1208-1219.
- \*Gerber GB, Maes J. 1978. Heme synthesis in the lead intoxicated mouse embryo. Toxicology 9:173-179.
- \*Gerber GB, Maes J, Gilliavod N, et al. 1978. Brain biochemistry of infant mice and rats exposed to lead. Toxicol Lett 2:51-63.
- \*Gerhardsson L, Brune D, Nordberg GF, et al. 1986a. Distribution of cadmium, lead, and zinc in lung, liver, and kidney in long-term exposed smelter workers. Sci Total Environ 50:65-85.
- \*Gerhardsson L, Endlyst V, Lundstrom NG, et al. 1995b. Lead in tissues of deceased lead smelter workers. J Trace Elem Med Biol 9:136-143.
- \*Gerhardsson L, Hagmar L, Rylander L, et al. 1995a. Mortality and cancer incidence among secondary lead smelter workers. Occup Environ Med 52:667-672.
- \*Gerhardsson L, Lundstrom NG, Nordberg G, et al. 1986b. Mortality and lead exposure: A retrospective cohort study of Swedish smelter workers. Br J Ind Med 43:707-712.
- \*Gerhardt RE, Crecelius EA, Hudson JB. 1980. Trace element content of moonshine. Arch Environ Health 35:332-334.
- \*Gerlowski LE, Jain RK. 1983. Physiologically-based pharmacokinetic modeling: Principles and applications. J Pharm Sci 72:1103-1126.
- \*Gersberg RM, Gaynor K, Tenczar D, et al. 1997. Quantitative modeling of lead exposure from glazed ceramic pottery in childhood lead poisoning cases. International Journal of Environmental Health Research 7(3):193-202.
- \*Gething I. 1975. Tetramethyllead absorption: A report of a human exposure to a high level of tetramethyl lead. Br J Ind Med 32:329-333.

# LEAD 515 8. REFERENCES

- \*Getz LL, Haney AW, Larimore RW, et al. 1977. Transport and distribution in a watershed ecosystem. In: Boggess WR, ed. Lead in the environment: Chapter 6. Washington, DC: National Science Foundation. Report No. NSF/RA-770214, 105-133.
- \*Giddings CJ. 1973. Chemistry, man, and environmental change: An integrated approach. New York, NY: Harper & Row, Publishers, Inc.
- Gil FM, Dubois JA, Lago CA, et al. 1988. [Subclinical neuropathy due to inorganic lead: Electrophysical discoveries in workers exposed to lead.] Med Segur Trab 35:18-23. (French)
- \*Gilbert ME. 1997. Towards the development of a biologically based dose-response model of lead neurotoxicity. American Zoologist 37(4):389-398.
- \*Gilbert SG, Rice DC. 1987. Low-level lifetime lead exposure produces behavioral toxicity (spatial discrimination reversal) in adult monkeys. Toxicol Appl Pharmacol 91:484-490.
- Giurgea R, Baba I, Haller J, et al. 1989. Modifications in the liver and thymus of Wistar rats intoxicated with lead. Revue Romaine de Biologie: Serie Biologie Animale 34:113-115.
- \*Glickman L, Valciukas JA, Lilis R, et al. 1984. Occupational lead exposure: Effects on saccadic eye movements. Int Arch Occup Environ Health 54:115-125.
- \*Goering PL. 1993. Lead-protein interactions as a basis for lead toxicity. Neurotoxicology 14:45-60.
- \*Goering PL, BA. 1984. Regulation of lead inhibition of delta-aminolevulinic acid dehydratase by a high affinity renal lead-binding protein. J Pharmacol Exp Ther 231:66-71.
- \*Goering PL, BA. 1985. Mechanisms of renal lead-binding protein protection against lead-inhibition of delta-aminolevulinic acid dehydratase. J Pharmacol Exp Ther 234:365-371.
- \*Goering PL, BA. 1987. Metal constitution of metallothionein influences inhibition of delta-aminolevulinic acid dehydratase (porphobiligen synthase) by lead. Biochem J 245:339-345.
- \*Goering PL, Mistry P, Fowler BA. 1986. A high affinity lead binding protein attenuates lead inhibition of delta-aminolevulinic acid dehydratase: Comparison with a renal lead-binding protein. J Pharmacol Exp Ther 237:220-225.
- \*Goldberg AM, Meredith PA, Miller S, et al. 1978. Hepatic drug metabolism and heme biosynthesis in lead-poisoned rats. Br J Pharmacol 62:529-536.
- Goldberg R, Garabrant DH, Peters JM, et al. 1987. Excessive lead absorption resulting from exposure to lead naphthenate. J Occup Med 29:750-751.
- \*Goldfrank LR, Flomenbaum NE, Lewin NA, et al. 1994. Toxicologic emergencies. 5th edition. San Mateo, CA: Appleton and Lange.
- \*Goldman RH, Baker EL, Hannan M, et al. 1987. Lead poisoning in automobile radiator mechanics. N Engl J Med 317:214-218.

### LEAD 516 8. REFERENCES

- \*Goldstein GW. 1993. Evidence that lead acts as a calcium substitute in second messenger metabolism. Neurotoxicology 14:97-102.
- \*Gong JK, Arnold JS, Cohn SH. 1964. Composition of trabecular and cortical bone. Anat Rec 149:325-331.
- \*Gonick HC, Khalil-Manesh F, Raghavan SRV, et al. 1985. Characterization of human erythrocyte lead binding protein. Proceedings of the International Conference on Heavy Metals in the Environment 1:313-316.
- \*Gonzalez-Riola J, Hernandez ER, Escribano A, et al. 1997. Effect of lead on bone and cartilage in sexually mature rats: a morphometric and histomorphometry study. Environ Res 74(1):91-93.
- \*Gorell JM, Johnson CC, Rybicki BA, et al. 1997. Occupational exposures to metals as risk factors for Parkinson's disease. Am Acad Neurol 48:1-9.
- Govoni S, Battaini F, Rius RA, et al. 1988. Central nervous system effects of lead: A study model in neurotoxicology. NATO ASI Ser 100(A):259-275.
- \*Goyer R. 1992. Nephrotoxicity and carcinogenicity of lead. In: Beck, BD. Symposium overview: an update on exposure and effects of lead. Fundam Appl Toxicol 18:1-16.
- \*Goyer R. 1993. Lead toxicity: Current concerns. Environ Health Perspect 100:177-187.
- Goyer RA. 1971. Lead toxicity: A problem in environmental pathology. Am J Pathol 64:167-179.
- Goyer RA. 1985. Renal changes associated with lead exposure. In: Mahaffey KR, ed. Dietary and environmental lead: Human health effects. Amsterdam, The Netherlands: Elsevier Science Publishers B.V.
- \*Goyer RA. 1986. Toxic effect of metals. In: Klaassen CD, et al. ed. Casarett and Doull's Toxicology: The basic science of poisons. 3rd ed. New York, NY: Macmillan Publishing Co, 582-588, 598-605.
- \*Goyer, RA. 1990. Transplacental transport of lead. Environ Health Perspect 89:101-105.
- \*Goyer RA, Rhyne B. 1973. Pathological effects of lead. Rev Exp Pathol 12:2-77.
- \*Grabo TN. 1997. Unknown toxic exposures. Arts and crafts materials. Aaohn Journal 45(3):124-130.
- \*Grandjean P. 1979. Occupational lead exposure in Denmark: Screening with the haematofluorometer. Br J Ind Med 36:52-58.
- Grandjean P, Andersen O. 1982. Toxicity of lead additives. Lancet 2:333-334.
- \*Grandjean P, Bach E. 1986. Indirect exposures: The significance of bystanders at work and at home. Am Ind Hyg Assoc J 47:819-824.
- \*Grandjean P, Lintrup J. 1978. Erythrocyte-Zn-protoporphyrin as an indicator of lead exposure. Scand J Clin Lab Invest 38:669-675.

## LEAD 517 8. REFERENCES

- Grandjean P, Nielsen T. 1979. Organolead compounds: Environmental health aspects. Res Rev 72:98-148.
- \*Grandjean P, Olsen B. 1984. Lead. In: Vercruysse A, ed. Techniques and instrumentation in analytical chemistry. Volume 4: Evaluation of analytical methods in biological systems: Part B. Hazardous metals in human toxicology. New York, NY: Elsevier Science Publishing Co., Inc, 153-169.
- \*Grandjean P, Wulf HC, Niebuhr E. 1993. Sister chromatid exchange in response to variations in occupational lead exposure. Environ Res 32:199-204.
- \*Granjean P, Hollnagel H, Hedegaard L, et al. 1989. Blood lead-blood pressure relations: Alcohol intake and hemoglobin as confounders. Am J Epidemiol 129:732-739.
- \*Grant LD, Davis JM. 1987. Effect of low-level lead exposure on paediatric neurobehavioral and physical development: Current findings and future directions. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- \*Grant LD, Davis JM. 1989. Effect of low-level lead exposure on paediatric neurobehavioral and physical development: Current findings and future directions. In: Smith M, Grant LD, Sors A eds. Lead exposure and child development: An international assessment. Lancaster UK: Kluwer Academic Publishers.
- \*Grant LD, Kimmel CA, West GL, et al. 1980. Chronic low-level lead toxicity in the rat: II. Effects on postnatal physical and behavioral development. Toxicol Appl Pharmacol 56:42-58.
- \*Graziano J. 1994. Validity of lead exposure markers in diagnosis and surveillance. Clin Chem 40:1387-1390.
- \*Graziano J, Blum C. 1991. Lead exposure from lead crystal. Lancet 333:141-142.
- \*Graziano J, Blum CB, Lolacono NJ, et al. 1996. A human *in vivo* model for determination of lead bioavailability using stable isotope dilution. Environ Health Perspect 104:176-179.
- \*Graziano J, Popovac D, Murphy M, et al. 1986. Environmental lead, reproduction and infant development. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: KJuwer Academic Publishers.
- \*Graziano JH. 1993. Conceptual and practical advances in the measurement and clinical management of lead toxicity. Neurotoxicology 14:219-224.
- \*Graziano JH. 1994. Validity of lead exposure markers in diagnosis and surveillance. Clin Chem 40(7 Pt 2):387-390.
- \*Graziano JH, Popovac D, Factor-Litvak P, et al. 1990. Determinants of elevated blood lead during pregnancy in a population surrounding a lead smelter in Kosovo, Yugoslavia. Environ Health Perspect 89:95-100.
- \*Greene T, Ernhart CB. 1991. Prenatal and preschool age lead exposure: Relationship with size. Neurotoxicology and Teratology 13:417-427.

# LEAD 518 8. REFERENCES

- \*Gregus Z, Klaassen CO. 1986. Disposition of metals in rats: A comparative study of fecal, urinary, and biliary excretion and tissue distribution of eighteen metals. Toxicol Appl Pharmacol 85:24-38.
- \*Griffin TB, Couiston F, Wills H. 1975b. [Biological and clinical effects of continuous exposure to airborne particulate lead.] Arh Hig Toksikol 26:191-208. (Yugoslavian)
- Griffin TB, Coulston F, Golberg L, et al. 1975a. Clinical studies on men continuously exposed to airborne particulate lead. In: Griffin TB, Knelson JG, eds. Lead. Stuttgart, West Germany: Georg Thieme Publisher, 221-240.
- \*Grobler SR, Rossouw RJ, Kotze D. 1988. Effect of airborne lead on the blood lead levels of rats. S Afr J Sci 84:260-262.
- \*Gross M, Kumar R. 1990. Physiology and biochemistry of vitamin D-dependent calcium binding proteins. Am J Physiol 259:F195-F209.
- \*Gross SB. 1979. Oral and inhalation lead exposures in human subjects (Kehoe balance experiments). New York, NY: Lead Industries Association.
- \*Gross SB, Pfitzer EA, Yeager DW, et al. 1975. Lead in human tissues. Toxicol Appl Pharmacol 32:638-651.
- \*Gruber HE, Gonick HC, Khalil-Manesh F, et al. 1997. Osteopenia induced by long-term, low- and high-level exposure of the adult rat to lead. Miner Electrolyte Metab 23 (2):65-73.
- \*Guilarte TR. 1997. Glutamatergic system and developmental lead neurotoxicity. Neurotoxicology 18(3):665-672.
- \*Guilarte TR, Miceli RC, Jett DA. 1995. Biochemical evidence of an interaction of lead at the zinc allosteric sites of the NMDA receptor complex: effects of neuronal development. Neurotoxicology 16:63-71.
- \*Gulson B, Wilson D. 1994. History of Lead Exposure in Children Revealed from Isotopic Analyses of Teeth. Arch Env Health 49(4):279-283.
- \*Gulson BL. 1996. Tooth analyses of sources and intensity of lead exposure in children. Environ Health Perspect 104:306-312.
- \*Gulson BL, James M, Giblin AM, et al. 1997a. Maintenance of elevated lead levels in drinking water from occasional use and potential impact on blood leads in children. Sci Total Environ 205(2-3):271-275.
- \*Gulson BL, Jameson CW, Mahaffey KR, et al. 1997b. Pregnancy increases mobilization of lead from maternal skeleton. J Lab Clin Med 130(1):51-62.
- \*Gulson BL, Jameson CW, Mahaffey KR, et al. 1998. Relationships of lead in breast milk to lead in blood, urine, and diet of the infant and mother. Environ Health Perspect 106(10):667-674.

# LEAD 519 8. REFERENCES

- \*Gulson BL, Mizon KJ, Korsch MJ, et al. 1996. Impact on blood lead in children and adults following relocation from their source of exposure and contribution of skeletal tissue to blood lead. Bull Environ Contam Toxicol 56:543-550.
- \*Gunderson EL. 1988. FDA total diet study, April 1982-April 1984, dietary intakes of pesticides, selected elements and other chemicals. J Assoc Off Anal Chem 71:1200-1209.
- Guthrie R. 1986. Lead exposure in children: The need for professional and public education. Ann NY Acad Sci 477:322-328.
- \*Guzelian PS, Henry CJ, Olin SS. 1992. Similarities and differences between children and adults: Implications for risk assessment. International Life Sciences Institute Press, Washington, D.C.
- \*Haas T, Wieck AG, Schaller KH, et al. 1972. [The usual lead load in new-born infants and their mothers.] Zentralblatt fur Bakteriologie [B] 155:341-349. [German)
- Habashi N, Kruszewski S. 1987. Lead encephalopathy from inhalation of leaded gasoline in an adult. Meeting of the Society for Research and Education in Primary Care Internal Medicine, San Diego, CA, April 30-May 1. Clin Res 35:743A.
- \*Haeger-Aronsen B, Abdulla M, Fristedt BI. 1971. Effect of lead on δ-aminolevulinic acid dehydrase activity in red blood cells. Arch Environ Health 23:440-445.
- \*Haeger-Aronsen B, Schutz A, Abdulla M. 1976. Antagonistic effect *in vivo* of zinc on inhibition of δ-aminolevulinic acid dehydratase by lead. Arch Environ Health 31:215-220.
- \*Haenninen H, Hernberg S, Mantere P, et al. 1978. Psychological performance of subjects with low exposure to lead. J Occup Med 20:683-689.
- \*Haenninen H, Mantere P, Hernberg S, et al. 1979. Subjective symptoms in low-level exposure to lead. Neurotoxicology 1:333-347.
- \*Haglund B, Cnattingius S. 1990. Cigarette smoking as a risk factor for sudden infant death syndrome: A population-based study. Am J Public Health 80:29-32.
- Hakim RB, Stewart W, Tielsch J. 1989. A case-control study of parental occupational lead exposure and strabismus. Am J Epidemiol 130:834.
- \*Hamilton DL. 1978. Interrelationships of lead and iron retention in iron- deficient mice. Toxicol Appl Pharmacol 46:651-661.
- \*Hamilton JD, O'Flaherty EJ. 1994. Effects of lead exposure on skeletal development in rats. Fundam Appl Toxicol 22(4):594-604.
- \*Hamilton JD, O'Flaherty EJ. 1995. Influence of lead on mineralization during bone growth. Fundam Appl Toxicol 26(2):265-271.
- \*Hammad TA, Sexton M, Langenberg P. 1996. Relationship between blood lead and dietary iron intake in preschool children. A cross-section study. Ann Epidemiol 6(1):30-33.

# LEAD 520 8. REFERENCES

- Hammond PB. 1971. The effects of chelating agents on the tissue distribution and excretion of lead. Toxicol Appl Pharmacol 18:296-310.
- \*Hammond PB. 1982. Metabolism of lead. In: Chisolm JJ, O'Hara DM, eds. Lead absorption in children: Management, clinical and environmental aspects. Baltimore, MD: Urban and Schwarzenberg, 11-20.
- \*Hammond PB, Bornschein RL, Succop P. 1985. Dose-effect and dose-response relationships of blood lead to erythrocytic protoporphyrin in young children. In: Bornschein RL, Rabinowitz MB, eds. The Second International Conference on Prospective Studies of Lead, Cincinnati, OH: April, 1984. Environ Res 38:187-196.
- \*Hammond PB. Minnema DJ, Shulka R. 1990. Lead exposure lowers the set point for food consumption and growth in weanling rats. Toxicol Appl Pharmacol 106:80-87.
- \*Hansen ON, Trillingsgaard A, Beese I, et al. 1989. A neuropsychological study of children with elevated dentine lead level: Assessment of the effect of lead in different socioeconomic groups. Neurotoxicol Teratol 11:205-213.
- \*Harlan WR. 1988. The relationship of blood lead levels to blood pressure in the US population. Environ Health Perspect 78:9-13.
- \*Harlan WR, Landis JR, Schmouder RL, et al. 1985. Blood lead and blood pressure: Relationship in the adolescent and adult US population JAMA 253:530-534.
- Harley NH, Kneip TH. 1985. An integrated metabolic model for lead in humans of all ages. Final report to the US Environmental Protection Agency. Contract No. B44899 with New York University School of Medicine. Department of Environmental Medicine, 1-14.
- \*Harr GT, Aronow R. 1974. New information on lead in dirt and dust as related to the childhood lead problem. Environ Health Perspect 7:83-89.
- Harris P, Rodriguez E. 1986. Normal value for blood lead [letter]. N Engl J Med 314:1516-1517.
- Harrison RM, Radojevic M, Wilson SJ. 1986. The chemical composition of highway drainage waters: IV. Alkyl lead compounds in runoff waters. Sci Total Environ 50:129-137.
- \*Harry GJ, Schmitt TJ, Gong Z, et al. 1996. Lead-induced alterations of glial fibrillary acidic protein (GFAP) in the developing rat brain. Toxicol Appl Pharmacol 139:84-93.
- \*Hart C. 1987. Art hazards: An overview for sanitarians and hygienists. J Environ Health 49:282-286.
- \*Hartwig A. Schlepegrell R. Beyersmann D. 1990. Indirect mechanism of lead-induced genotoxicity in cultured mammalian cells. Mutat Res 241:75-82.
- \*Harvey PG, Hamlin MW, Kumar R, et al. 1984. Blood lead, behavior and intelligence test performance in preschool children. Sci Total Environ 40:45-60.

# LEAD 521 8. REFERENCES

- \*Harvey PG, Hamlin MW, Kumar R, et al. 1988. Relationships between blood lead, behavior, psychometric and neuropsychological test performance in young children. Br J Dev Psychol 6:145-156.
- \*Hashmi NS, Kachru DN, Khandelwal S, et al. 1989a. Interrelationship between iron deficiency and lead intoxication: Part 2. Biol Trace Elem Res 22:299-307.
- \*Hashmi NS, Kachru DN, Tandon SK. 1989b. Interrelationship between iron deficiency and lead intoxication: Part 1. Biol Trace Elem Res 22:287-297.
- \*Hatzakis A, Kokkevi A, Katsouyanni K, et al. 1987. Psychometric intelligence and attentional performance deficits in lead-exposed children. In: Lindberg SE, Hutchinson TC, eds. International Conference on Heavy Metals in the Environment, Vol. 1, New Orleans, LA, September. Edinburgh, UK: CEP Consultants, Ltd., 204-209.
- \*Hawk BA, Schroeder SR, Robinson G. et al. 1986. Relation of lead and social factors to IQ of low-SES children: A partial replication. Am J Ment Defic 91:178-183.
- Haworth S, Lawlor T, Mortelmans K, et al. 1983. Salmonella mutagenicity test results for 250 chemicals. Environ Mutagen Suppl 1:3-142.
- \*Hayashi M. 1983. Lead toxicity in the pregnant rat: 11. Effects of low-level lead on delta-aminolevulinic acid dehydratase activity in maternal and fetal blood or tissue. Ind Health 21:127-135.
- \*Hayashi M, Yamamoto K, Yoshimura M, et al. 1993. Effects of fasting on distribution and excretion of lead following long-term lead exposure in rats. Arch Environ Contam Toxicol 24: 201-205.
- \*HazDat. 1998. Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta. GA.
- \*Healy MA, Harrison PG, Aslam M, et al. 1982. Lead sulfide and traditional preparations: Routes for ingestion, and solubility and reactions in gastric fluid. J Clin Hosp Pharmacol 7:169-173.
- \*Heard MJ, Chamberlain AC. 1982. Effect of minerals and food on uptake of lead from the gastrointestinal tract in humans. Hum Toxicol 1:411-416.
- \*Heard MJ, Chamberlain AC. 1983. Uptake of lead by humans and effects of minerals and food. Sci Total Environ 30:245-253.
- \*Heard MJ, Wells AC, Newton D, et al. 1979. Human uptake and metabolism of tetra ethyl and tetramethyl lead vapour labelled with 203Pb. In: International Conference on Management and Control of Heavy Metals in the Environment, London, England, September. Edinburgh, United Kingdom: CEP Consultants, Ltd., 103-108.
- \*Heiman AS, Tonner LE. 1995. The acute effect of lead acetate on glucocorticoid regulation of tyrosine aminotransferase in hepatoma cells. Toxicology 100(1-3):57-68.
- Hennekes R, Janssen K. 1987. [Animal experiments on the retinotoxic effects of low level lead exposure.] Fortschr Ophthalmol 84:374-376. (German)

### LEAD 522 8. REFERENCES

- \*Herber RFM. 1980. Estimation of blood lead values from blood porphyrin and urinary delta-aminolevulinic acid levels in workers. Int Arch Occup Environ Health 45:169-179.
- \*Hermes-Lima M, Pereira B, Bechara EJH. 1991. Are free radicals involved in lead poisoning? Xenobiotica 21:1085-1090.
- \*Hernandez-Avila M, Gonzalez-Cossio T, Palazuelos E, et al. 1996. Dietary and environmental determinants of blood and bone lead levels in lactating postpartum women living in Mexico City. Environ Health Perspect 104:1076-1082.
- \*Hernberg S, Nikkanen J. 1970. Enzyme inhibition by lead under normal urban conditions. Lancet 1:63.
- \*Hernberg S, Nikkanen J, Mellin G, et al. 1970. delta-Aminolevulinic acid dehydrase as a measure of lead exposure. Arch Environ Health 21:140-145.
- \*Hertz-Picciotto I, Croft J. 1993. Review of the relation between blood lead and blood pressure. Epidemiol Rev 15:352-373.
- \*Heusler-Bitschv S, Knutti R, Schiatter C. 1988. Inter-individual variability of the kinetics of lead in man. In: Braetter P, Schramel P, eds. Proceedings of the International Workshop: Trace element analytical chemistry in medicine and biology. Vol. 5. April 1988, Neuherberg, West Germany, 627-634.
- \*Hewitt CN, Harrison RM. 1987. Atmospheric concentrations and chemistry of alkyl lead compounds and environmental alkylation of lead. Environ Sci Technol 21:260-266.
- \*Hewitt PJ. 1988. Accumulation of metals in the tissues of occupationally exposed workers. Environ Geoch Hlth 10:113-116.
- Heywood RR, James RQ, Pulsford AH, et al. 1979. Chronic oral administration of alkyl lead solution to the Rhesus monkey. Toxicol Lett 4:119-125.
- \*Hilderbrand DC, Der R. Griffin VWT, et al. 1973. Effect of lead acetate on reproduction. Am J Obstet Gynecol 115:1058-1065.
- \*Hillam RP, Ozkan AN. 1986. Comparison of local and systemic immunity after intratracheal, intraperitoneal, and intravenous immunization of mice exposed to either aerosolized or ingested lead. Environ Res 39:265-277.
- Hirao Y, Mabuchi H, Fukuda E, et al. 1986. Lead isotope ratios in Tokyo Bay sediments and the implications in the lead consumption of Japanese industries. Geochemical Journal 20:1-15.
- \*Hodgkins DG, Robins TG, Hinkamp DL, et al. 1992. A longitudinal study of the relation of lead in blood to lead in air concentrations among battery workers. Br J Ind Med 49:241-248.
- \*Hodgkins DG, Rogins TG, Hinkamp DL et al. 1991. The effect of airborne lead particle size on worker blood-lead levels: An empirical study of battery workers. J Occup Med 33:1265-1273.
- Hoffer BJ, Olson L, Palmer MR. 1987. Toxic effects of lead in the developing nervous system: In oculo experimental models. Environ Health Perspect 74:169-175.

### LEAD 523 8. REFERENCES

- \*Hoffman DJ, Niyogi SK. 1977. Metal mutagens and carcinogens affect RNA synthesis rates in a distinct manner. Science 198:513-514.
- \*Hogan K, Marcus A, Smith R, et al. 1998. Integrated exposure uptake biokinetic model for lead in children: empirical comparisons with epidemiological data. Environ Health Perspect 106:1557-1567.
- \*Hogstedt C, Hane M, Agrell A, et al. 1983. Neuropsychological test results and symptoms among workers with well-defined long-term exposure to lead. Br J Ind Med 40:99-105.
- \*Holdstein Y, Pratt H, Goldsher M, et al. 1986. Auditory brain stem evoked potentials in asymptomatic lead-exposed subjects. J Laryng Otol 100:1031-1036.
- \*Holmgren GGS, Meyer MW, Chaney RL, et al. 1993. Cadmium, lead, cooper, and nickel in agricultural soils of the United States of America. J Environ Qual 22:335-348.
- \*Holness DL, Nethercott JR. 1988. Acute lead intoxication in a group of demolition workers. Appl Ind Hyg 3:338-341.
- Holtzman D, DeVries C, Nguyen H, et al. 1984. Maturation of resistance to lead encephalopathy: Cellular and subcellular mechanisms. Neurotoxicology 5:97-124.
- \*Hopper DL, Kernan WJ, Lloyd WE. 1986. The behavioral effects of prenatal and early postnatal lead exposure in the primate Macaca fascicularis. Toxicol Ind Health 21:1-16.
- \*Hoppin JA, Aro A, Hu H, et al. 1997. *In vivo* bone lead measurement in suburban teenagers. Pediatrics 100(3 Pt 1):365-370.
- \*Hoppin JA, Aro ACA, Williams PL, et al. 1995. Validation of K-XRF bone lead measurement in young adults. Environ Health Perspect 103:78-83.
- \*Howe HE. 1981. Lead. In: Kirk-Othmer encyclopedia of chemical technology. 3rd ed., Vol. 14. New York, NY: John Wiley and Sons, 98-139.
- \*Hryhirczuk DO, Rabinowitz RB, Hessl SM, et al. 1985. Elimination kinetics of blood lead in workers with chronic lead intoxication. Am J Ind Med 8:33-42.
- \*HSDB. 1996. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program. Bethesda, MD.
- \*Hsu FS, Krook L, Pond WG, et al. 1975. Interactions of dietary calcium with toxic levels of lead and zinc in pigs. J Nutr 105:112-118.
- \*Hu H. 1991. Knowledge of diagnosis and reproductive history among survivors of childhood plumbism. Am J Public Health 81:1070-1072.
- \*Hu H, Aro A, Payton M, et al. 1996a. The relationship of bone and blood lead to hypertension. The normative study. JAMA 275:1171-1176.

# LEAD 524 8. REFERENCES

- \*Hu H, Aro A, Rotnitzky A. 1995. Bone lead measured by x-ray fluorescence: Epidemiologic methods. Environ Health Perspect 103(Suppl 1):105-110.
- \*Hu H, Hashimoto D, Besser M. 1996b. Levels of lead in blood and bone of women giving birth in a boston hospital. Arch Environ Health 51(1):52-8.
- \*Hu H. Milder FL, Burger DE. 1989. X-ray fluorescence: Issues surrounding the application of a new tool for measuring burden of lead. Environ Res 49:295-317.
- \*Hu H, Milder FL, Burger DE. 1990. X-ray fluorescence measurements of lead burden in subjects with low-level community lead exposure. Arch Environ Health 45(6):335-341.
- \*Hu H, Payton M, Korrick S, et al. 1996c. Determinants of bone and blood lead levels among community-exposed middle-aged to elderly men. The normative aging study. Am J Epidemiol 144(8):749-759.
- \*Hu H, Pepper L, Goldman R. 1991. Effect of repeated occupational exposure to lead, cessation of exposure, and chelation on levels of lead in bone. Am J Ind Med 20:723-735.
- \*Hu H, Rabinowitz M, Smith D. 1998. Bone lead as a biological marker in epidemiologic studies of chronic toxicity: conceptual paradigms. Environmental Health Perspectives 106(1):1-8.
- \*Huang JX, He FS, Wu YG, et al. 1988a. Observations on renal function in workers exposed to lead. Sci Total Environ 71:535-537.
- \*Huang XP, Feng ZY, Zhai WL, et al. 1998b. Chromosomal aberrations and sister chromatid exchanges in workers exposed to lead. Biomed Environ Sci 1:382-387.
- \*Hubermont G. Buchet J-P, Roels H, et al. 1976. Effect of short-term administration of lead to pregnant rats. Toxicology 5:379-384.
- \*HUD. 1987a. Department of Housing and Urban Development. Code of Federal Regulations. 24 CFR 35.
- \*HUD. 1987b. Department of Housing and Urban Development. Code of Federal Regulations. 24 CFR 510, 511, 570, and 590.
- \*HUD. 1987c. Department of Housing and Urban Development. Federal Register 52:1876-1896.
- \*HUD. 1987d. Department of Housing and Urban Development. Federal Register 52:4870-4886.
- HUD. 1988a. Department of Housing and Urban Development. Federal Register 53:20790-20806.
- HUD. 1988b. Department of Housing and Urban Development. Federal Register 53:32701-32702.
- \*HUD. 1997. Guidelines for the evaluation and control of lead-based paint hazards in housing. Chapter 7: Lead-based paint inspection. 1997 Revision. U.S. Department of Housing and Urban Development.

### LEAD 525 8. REFERENCES

\*HUD. 1998. Lead-based paint poisoning prevention in certain residential structures. U.S. Department of Housing and Urban Development. Code of Federal Regulations. 24 CFR 35.

Huel G, Boudene C, Jouan M, et al. 1986. Assessment of exposure to lead of the general population in the French community through biological monitoring. Int Arch Occup Environ Health 58:131-139.

\*Huseman CA, Moriarty CM, Angle CR. 1987. Childhood lead toxicity and impaired release of thyrotropin-stimulating hormone. Environ Res 42:524-533.

\*Huseman CA, Varma MM, Angle CR. 1992. Neuroendocrine effects of toxic and low blood lead levels in children. Pediatrics 90:186-189.

Hutton M, Wadge A, Milligan PJ. 1988. Environmental levels of cadmium and lead in the vicinity of a major refuse incinerator. Atmos Environ 22:411-416.

Hwang O-J, Lee B-K. 1988. [Biological indicators of lead exposure in female lead workers.] J Cathol Med Coll 41:85-92. (Chinese)

\*IAC. 1986a. Iowa Administrative Code. Environmental Protection 567, Chapter 61.3 (455B). Surface Water Quality Criteria, 7.

\*IAC. 1986b. Iowa Administrative Code. Environmental Protection 567. Chapter 121.3 (455B). Land Application of Wastes--Permit Exemptions, 1.

\*Iannaccone A. Carmignani M, Boscolo P. 1981. [Cardiovascular reactivity in the rat following chronic exposure to cadmium and lead.] Ann 1st Super Sanita 17:655-660. (Italian)

IARC. 1980. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans. Vol. 23: Some metals and metallic compounds. Lyons France: World Health Organization, International Agency for Research on Cancer, 352-415.

\*IARC. 1987. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans: Overall evaluations of carcinogenicity. Suppl 7: An updating of the IARC monographs volumes 1 to 42. Lyon, France: World Health Organization, International Agency for Research on Cancer, 230-232.

IARC. 1989. Directory of on-going research in cancer epidemiology: 1989/90. Lyon, France: World Health Organization, International Agency for Research on Cancer, 54, 453-454. IARC No. 101.

\*Ibels LS, Pollock CA. 1986. Toxicology management review: Lead intoxication. Med Tox 1:387-410.

\*IEPA. 1988a. Illinois water quality report 1986-1987. Springfield, IL: Illinois Environmental Protection Agency, Division of Water Pollution Control. IEPA/WPC/88-002.

\*IEPA. 1998b. Title 35: Environmental protection: Subtitle C: Water pollution: Chapter 1. Pollution control board. Springfield, IL: Illinois, Environmental Protection Agency. State of Illinois Rules and Regulations.

### LEAD 526 8. REFERENCES

- \*Impelman D, Lear CL, Wilson R, et al. 1982. Central effects of low level developmental lead exposure of optic nerve conduction and the recoverability of geniculocortical responses in hooded rats. Society for Neuroscience 8:81.
- Ingle J, Jones DG, Sykes J. 1988. High airborne lead concentrations in a jobbing foundry. Ann Occup Hyg 32:145-146.
- \*IPCS (International Programme on Chemical Safety). 1995. Inorganic lead. Environmental Health Criteria 165 ed. Geneva: WHO (World Health Organization).
- \*IRIS. 1999. Integrated Risk Information System. U.S. Environmental Protection Agency. Office of Health and Environmental Assessment. Environmental Criteria and Assessment Office, Cincinnati, OH.
- \*Ishida M, Ishizaki M, Yamada Y. 1996. Decreases in postural change in finger blood flow in ceramic painters chronically exposed to low level lead. Am J Ind Med 29(5):547-553.
- \* Ito Y, Niiya Y, Otani M, et al. 1987. Effect of food intake on blood lead concentration in workers occupationally exposed to lead. Toxicol Lett 37:105-114.
- \*Jacquet P, Leonard A, Gerber GB. 1977. Cytogenetic investigations on mice treated with lead. J Toxicol Environ Health 2:619-624.
- \*Jacquet P, Tachon P. 1981. Effects of long-term lead exposure on monkey leukocyte chromosomes. Toxicol Lett 8:165-169.
- \*Jadhav AL, Areola OO. 1997. Alterations in acquisition and pattern of responding in rats subchronically exposed to low levels of lead. Research Communications in Biological Psychology Psychiatry 22:11-24.
- \*Jadhav AL, Ramesh GT. 1997. Pb-induced alterations in tyrosine hydroxylase activity in rat brain. Mol Cell Biochem 175(1-2):137-41.
- \*Jagetia GC, Aruna R. 1998. Effect of various concentrations of lead nitrate on the induction of micronuclei in mouse bone marrow. Mut Res 415:131-137.
- \*James AC. 1978. Lung deposition of sub-micron aerosols calculated as a function of age and breathing rate. In: National Radiological Protection Board Annual Research and Development Report. National Radiological Protection Board. Harwell, United Kingdom, 71-75.
- \*James HM, Milburn ME, Blair JA. 1985. Effects of meals and meal times on uptake of lead from the gastrointestinal tract of humans. Human Toxicol 4:401-407.
- \*Janin Y, Couinaud C, Stone A, et al. 1985. The "lead-induced colic" syndrome in lead intoxication. Surg Ann 17:287-307.
- \*Jason KM, Kellogg CK. 1981. Neonatal lead exposure: Effects on development of behavior and striatal dopamine neurons. Pharmacol Biochem Behavior 15:641-649.
- \*Jensen AA. 1984. Metabolism and toxicokinetics: Chapter 8. In: Grandjean P, ed. Biological effects organolead compounds. Boca Raton, FL: CRC Press, 97-115.

\*Jett DA, Kuhlmann AC, Farmer SJ, et al. 1997. Age-dependent effects of developmental lead exposure on performance in the Morris water maze. Pharmacol Biochem Behav 57(1-2):271-279.

\*Johanson CE. 1980. Permeability and vascularity of the developing brain: Cerebellum vs cerebral cortex. Brain Research 190:3-16.

Johansson L, Wide M. 1986. Long-term exposure of the male mouse to lead: Effects on fertility. Environ Res 41:481-487.

\*Johnson BL, Mason RW. 1984. A review of public health regulations on lead. Neurotoxicity 5:1-22.

\*Johnson NE, Tenuta K. 1979. Diets and lead blood levels of children who practice pica. Environ Res 18:369-376.

Jones KW, Schidlovsly G, Williams FH Jr. 1987. *In vivo* determination of tibial lead x-ray fluorescence with Cd-109 source. In: Ellis, Wasumura, Morgan, eds. *In vivo* body composition studies. New York, NY: Brookhaven National Laboratory, The Institute of Physical Sciences in Medicine.

Jorhem L, Mattsson P, Siorach S. 1988. Lead in table wines on the Swedish market. Food Addit Contam 5:645-649.

Joselow MM, Flores J. 1977. Application of the zinc protoporphyrin (ZP) test as a monitor of occupational exposure to lead. Am Ind Hyg Assoc J 38:63-66.

Kachru DN, Tandon SK, Misra UK, et al. 1989. Occupational lead poisoning among silver jewelry workers. Indian J Med Sci 89-91.

\*Kala SV, Jadhav AL. 1995a. Region-specific alterations in dopamine and serotonin metabolism in brains of rats exposed to low levels of lead. Neurotoxicology 16:297-308.

\*Kala SV, Jadhav AL. 1995b. Low level lead exposure decreases *in vivo* release of dopamine in the rat nucleus accumbens: A microdialysis study. J Neurochem 65:1631-1635.

\*Kang HK, Infante PF, Carra JS. 1980. Occupational lead exposure and cancer (letter). Science 207:935-936.

Kaufman A. 1973. Gasoline sniffing among children in a Pueblo Indian village. Pediatrics 51:1060-1064.

\*Kaushal D, Bansal MR, Bansal MP. 1996. Cell kinetics of the rat seminiferous epithelium following lead acetate treatment. Journal of Trace Elements in Experimental Medicine 9(2):47-56.

Kay JG. 1990. A study of radon-222 and lead-210 distribution and transport in the North Atlantic. Washington, DC: National Science Foundation. Division of Atmospheric Sciences.

\*Kaye WE, Novotny TE, Tucker M. 1987. New ceramics-related industry implicated in elevated blood lead levels in children. Arch Environ Health 42:161-164.

Kehoe RA. 1927. On the toxicity of tetraethyl lead and inorganic lead salts. J Lab Clin Med 7:554-560.

# LEAD 528 8. REFERENCES

- \*Kehoe RA. 1961a. The metabolism of lead in man in health and disease: Present hygienic problems relating to the absorption of lead: The Harben lectures, 1960. J R Inst Public Health Hyg 24:177-203.
- \*Kehoe RA. 1961b. The metabolism of lead in man in health and disease: The metabolism of lead under abnormal conditions: The Harben lectures, 1960. J R Inst Public Health Hyg 24:129-143.
- \*Kehoe RA. 1961c. The metabolism of lead in man in health and disease: The normal metabolism of lead: The Harben lectures, 1960. J R Inst Public Health Hyg 24:81-97.
- \*Kehoe RA. 1987. Studies of lead administration and elimination in adult volunteers under natural and experimentally induced conditions over extended periods of time. Food Chem Toxic 25:425-493.
- \*Kehoe RA, Thamann F. 1931. The behavior of lead in the animal organism: II. Tetraethyl lead. Am J Hyg 13:478-498.
- \*Keller CA, Doherty RA. 1980a. Bone lead mobilization in lactating mice and lead transfer to suckling offspring. Toxicol Appl Pharmacol 55:220-228.
- \*Keller CA, Doherty RA. 1980b. Distribution and excretion of lead in young and adult female mice. Environ Res 21:217-228.
- Kempinas WG, Favaretto ALV, Melo VR. 1994. Time-dependent effects of lead on rat reproductive functions. J Appl Toxicol 14:427-433.
- Kennedy GL, Arnold DW, Calandra JC. 1975. Teratogenic evaluation of lead compounds in mice and rats. Food Cosmet Toxicol 13:629-632.
- \*Kharab P, Singh I. 1985. Genotoxic effects of potassium dichromate, sodium arsenite, cobalt chloride and lead nitrate in diploid yeast. Mut Res 155:117-120.
- \*Khera AK, Wibberiev DG, Edwards KW, et al. 1980b. Cadmium and lead levels in blood and urine in a series of cardiovascular and normotensive patients. International Journal of Environmental Studies 14:309-312.
- Khera AK, Wibberley DG, Dathan JG. 1980a. Placental and stillbirth tissue lead concentration in occupationally exposed women. Br J Ind Med 37:394-396.
- Kim JS, Hamilton DL, Blakley BR, et al. 1992. The effects of thiamin on lead metabolism: Organ distribution of lead 203. Can J Vet Res 56:256-259.
- \*Kim R, Hu H, Rotnitzky A, et al. 1995. A longitudinal study of chronic lead exposure and physical growth in Boston children. Environ Health Perspect 103:952-957.
- \*Kim R, Hu H, Rotnitzky A, et al. 1996b. Longitudinal relationship between dentin lead levels in childhood and bone lead levels in young adulthood. Arch Environ Health 51(5):375-382.
- \*Kim R, Rotnitzky A, Sparrow D, et al. 1996a. A longitudinal study of low-level lead exposure and impairment of renal function. The normative aging study. JAMA 275:1177-1181.

# LEAD 529 8. REFERENCES

- Kimber I, Jackson JA, Stonard MD. 1986a. Failure of inorganic lead exposure to impair natural killer (NK) cell and T-lymphocyte function in rats. Toxicol Lett 31:211-218.
- \*Kimber I, Stonard MD, Gidlow DA, et al. 1986b. Influence of chronic low-level exposure to lead on plasma immunoglobin concentration and cellular immune function in man. Int Arch Occup Environ Health 57:117-125.
- \*Kimmel CA, Grant LD, Sloan CS, et al. 1980. Chronic low-level lead toxicity in the rat. Toxicol Appl Pharmacol 56:28-41.
- \*Kimmel EC, Fish RH, Casida JE. 1977. Bioorganotin chemistry: Metabolism of organotin compounds in microsomal monoxygenase systems and in mammals. J Agric food Chem 25:1-9.
- \*Kirkby H. Gyntelberg F. 1985. Blood pressure and other cardiovascular risk factors of long-term exposure to lead. Scand J Work Environ Health 11:15-19.
- \*Kishi R. Ikeda T, Miyake H, et al. 1983. Effects of low lead exposure on neurobehavioral function in the rat. Arch Environ Health 38:25-33.
- \*Klaassen CD, Shoeman DW. 1974. Biliary excretion of lead in rats, rabbits, and dogs. Toxicol Appl Pharmacol 1(9):434-446.
- \*Klauder DS, Peterini, HB. 1975. Protective value of dietary copper and iron against some toxic effects of lead in rats. Environ Health Perspect 12:77-80.
- \*Kline TS. 1960. Myocardial changes in lead poisoning. Am J Dis Child 99:48-54.
- \*Kohler K, Lilienthal H, Guenther E, et al. 1997. Persistent decrease of the dopamine synthesizing enzyme tyrosine hydroxylase in the Rhesus monkey retina after chronic lead exposure. Neurotoxicology 18(3):623-632.
- \*Koller LD. 1985. Immunological effects of lead. In: Mahaffey KR, ed. Dietary and environmental lead: Human health effects. Amsterdam, The Netherlands: Elsevier Publishers B.V.
- \*Koller LD, Kerkvliet NI, Exon JH. 1985. Neoplasia induced in male rats fed lead acetate, ethylurea and sodium nitrite. Toxicologic Pathol 13:50-57
- \*Komori M, Nishio K, Kitada M et al. 1990. Fetus-specific expression of a form of cytochrome P-450 in human livers. Biochemistry 29:4430-4433.
- Kononen DW, Kintner HJ, Bivol KR. 1989. Air lead exposures and blood lead levels within a large automobile manufacturing workforce. 1980-1985. Arch Environ Health 44:244-251.
- \*Koo WWR, Succop PA, Bornschein RL, et al. 1991. Serum vitamin D metabolites and bone mineralization in young children with chronic low to moderate lead exposure. Pediatrics 87:680-687.
- \*Koren G, Chang N, Gonen R, et al. 1990. Lead-exposure among mothers and their newborns in Toronto. Can Med Assoc J 142:1241-1244.

### LEAD 530 8. REFERENCES

- \*Kosmider S, Petelenz T. 1962. [Electrocardiographic changes in elderly patients with chronic professional lead poisoning]. Pol Arch Med Wewn 32:437-442. (Polish)
- \*Kosnett MJ, Becker CE, Osterloh JD, et al. 1994. Factors influencing bone lead concentration in a suburban community assessed by noninvasive K x-ray fluorescence. JAMA 271:197-203.
- \*Kostial K, Kello D, Jugo S. et al. 1978. Influence of age on metal metabolism and toxicity. Environ Health Perspect 25:81-86.
- \*Kostial K, Momcilovic B. 1974. Transport of lead-203 and calcium-47 from mother to offspring. Arch Environ Health 29:28-30.
- \*Kotok D. 1972. Development of children with elevated blood levels: A controlled study. J Pediatr 80:57-61.
- \*Kotok D, Kotok R, Heriot T. 1977. Cognitive evaluation of children with elevated blood lead levels. Am J Dis Child 131:791-793.
- \*Kowalska-Wochna E, Moniuszko-Jakoniuk J, Kulikowska E, et al. 1988. The effect of orally applied aqueous solutions of lead and zinc on chromosome aberrations and induction of sister chromatid exchanges in the rat (Rattus sp). Genetica Polonice 29:181-189.
- \*Kozarzewska Z, Chmielnicka J. 1987. Dynamics of diethyllead excretion in the urine of rabbits after tetraethyllead administration. Br J Ind Med 44:417-421.
- \*Kozlowski J, Wojcik A. 1987. Accumulation and elimination of orally administered lead in laboratory mice: Experimental studies and a simple mathematical model. Ekologia Polska 35:355-371.
- \*Krasovskii GN, Vasukovich LY, Chariev OG. 1979. Experimental study of biological effects of lead and aluminum following oral administration. Environ Health Perspect 30:47-51.
- Krigman MR, Bouldin TW, Mushak P. 1980. Lead: Chapter 34. In: Spencer PS, Schaumburg HH, eds. Experimental and clinical neurotoxicology. Baltimore, MD: Williams and Wilkins Co.
- \*Krishnan K, Andersen ME. 1994. Physiologically-based pharmacokinetic modeling in toxicology. In: Wallace Hayes, ed. Principles and Methods of Toxicology. 3rd edition. New York, NY: Raven Press Ltd.
- \*Krishnan K, Andersen ME, Clewell HJ III, et al. 1994. Physiologically-based pharmacokinetic modeling of chemical mixtures. In: RSA Yang, ed. Toxicology of chemical mixtures. New York, NY: Academic Press.
- \*Kristensen P, Eilertsen E, Einarsdottir E, et al. 1995. Fertility in mice after prenatal exposure to benzo[a]pyrene and inorganic lead. Environ Health Perspect 103:588-590.
- \*Krueger JA, Duguay KM. 1989. Comparative analysis of lead in Maine urban soils. Bull Environ Contam Toxicol 42:574-581.

# LEAD 531 8. REFERENCES

\*Kuhnert PM, Erhard P, Kuhnert BR. 1977. Lead and delta-aminolevulinic acid dehydratase in RBC's of urban mothers and fetuses. Environ Res 14:73-80.

Kumagai S, Matsunaga I, Tabuchi T, et al. 1988. Assessment of occupational exposures to industrial hazardous substances. II. Interday fluctuations of the daily exposure averages among workers exposed to lead. Jpn J Ind Health 30:186-195.

\*Kumar S, Jain S, Aggarwal CS, et al. 1987. Encephalopathy due to inorganic lead exposure in an adult. Jpn J Med 26:253-254.

Kumar S, Mehta D, Singh S, et al. 1988. Biokinetics of lead in various mouse organs tissues using radiotracer technique. Ind J Exp Biol. 26:860-865.

Kuney JH, Nullican JN. 1988. Chemcyclopedia. Washington, DC: American Chemical Society, 191.

\*Kutbi II, Ahmed M, Saber A. et al. 1989. Measurement of blood-lead levels in school children of Jeddah Saudi Arabia and assessment of sub-toxic levels of lead on some sensitive hematological parameters. J Environ Sci Health A24:943-955.

\*Lacey RF, Moore MR, Richards WN. 1985. Lead in water, infant diet and blood: The Glasgow duplicate diet stud. Sci Total Environ 41:235-257.

\*Lagerkvist BJ, Ekesrydh S, Englyst V, et al. 1996. Increased blood lead and decreased calcium levels during pregnancy: a prospective study of Swedish women living near a smelter. Am J Public Health 86:1247-1252.

\*LaGoy P. 1987. Estimated soil ingestion rates for use in risk assessment. Risk Analysis 7:355-359.

\*Lai JS, Wu TN, Liou SH, et al. 1997. A study of the relationship between ambient lead and blood lead among lead battery workers. Int Arch Occup Environ Health 69(4):295-300.

Lal B, Murthy RC, Anand M, et al. 1991. Cardiotoxicity and hypertension in rats after oral lead exposure. Drug Chem Toxicol 14:305-318.

\*Lancranjan I, Popescu HI, Gavanescu O, et al. 1975. Reproductive ability of workmen occupationally exposed to lead. Arch Environ Health 30:396-401.

\*Landis JR, Flegal, KM. 1988. A generalized Mantel-Haenszel analysis of the regression of blood pressure on blood lead using NHANES II data. Environ Health Perspect 78:35-41.

Landrigan PJ. 1988. Epidemiologic assessment of lead absorption associated with incineration of municipal waste. Division of Environmental and Occupational Medicine, Mount Sinai School of Medicine, NY.

\*Landrigan PJ. 1989. Toxicity of lead at low dose. Br J Ind Med 46:593-596.

\*Landrigan PJ, Baker EL. 1981. Exposure of children to heavy metals from smelters: Epidemiology and toxic consequences. Environ Res 25:204-224.

### LEAD 532 8. REFERENCES

- \*Landrigan PJ, Baker EL Jr, Feldman RG, et al. 1976. Increased lead absorption with anemia and slowed nerve conduction in children near a lead smelter. J Pediatr 89:904-910.
- Landrigan PJ, Froines JR, Mahaffey KR. 1985. Body lead burden: Summary of epidemiological data and its relation to environmental sources and toxic effects: Chapter 14. In: Magaffev KR, ed. Dietary and environmental lead: Human health effects. Amsterdam, The Netherlands: Elsevier Sci Publisher BV, 421451.
- \*Landrigan PJ, Todd AC. 1994. Lead poisoning [see comments]. West J Med 161(2):153-159.
- \*Lannefors H, Hansson HC, Granat L. 1983. Background aerosol composition in southern Sweden -- Fourteen micro and macro constituents measured in seven particle size intervals at one site during one year. Atmos Environ 17:87-101.
- \*Lanphear BP, Burgoon DA, Rust SW, et al. 1998a. Environmental exposures to lead and urban children's blood lead levels. Environmental Research 76(2):120-130.
- \*Lanphear BP, Byrd RS, Auinger P, et al. 1998b. Community characteristics associated with elevated blood lead levels in children. Pediatrics 101(2):264-271.
- \*Lanphear BP, Roghmann KJ. 1997. Pathways of lead exposure in urban children. Environ Res 74(1):67-73.
- \*Lanphear BP, Weitzman M, Eberly S. 1996a. Racial differences in urban children's environmental exposures to lead. Am J Public Health 86(10):1460-1463.
- \*Lanphear BP, Weitzman M, Winter NL, et al. 1996b Lead-contaminated house dust and urban children's blood lead levels. Am J Public Health 86(10):1416-1421.
- \*Lansdown R, Yule W, Urbanowicz MA. et al. 1986. The relationship between blood lead concentrations, intelligence, attainment and behavior in a school population: The second London study. Int Arch Occup Environ Health 57:225-235.
- Laraque D, McCormick M, Norman M, et al. 1990. Blood lead, calcium status, and behavior in preschool children. Am J Dis Child 144:186-189.
- \*Larrabee D. 1997. Chapter 14 -- Metals: lead. U.S. Industry & Trade Outlook &98. New York: McGraw Hill, 1997.
- \*Larrabee D. 1998. Comments on chapter 4 of the draft toxicological profile for lead/metals division. U.S. Department of Commerce, February 11, 1998.
- \*Larson JK, Buchan RM, Blehm KD, et al. 1989. Characterization of lead fume exposure during gas metal arc welding on carbon steel. Appl Ind Hyg 4:330-333.
- \*Larsson B, Slorach SA, Hagman U, et al. 1981. WHO collaborative breast feeding study. Acta Paediatr Scand 70:281-284.

Lasky RE, Maier MM, Snodgrass EB, et al. 1995. The effects of lead on otoacoustic emissions and auditory evoked potentials in monkeys. Neurotoxicol Teratol 17:633-644.

Lasley SM. 1992. Regulation of dopaminergic activity, but not tyrosine hydroxylase, is diminished after chronic inorganic lead exposure. Neurotoxicology 13:625-636.

Lasley SM, Greenland RD, Minnena DJ, et al. 1985. Altered central monoamine response to D-amphetamine in rats chronically exposed to inorganic lead. Neurochem Res 10:933-944.

\*Laug EP, Kunze FM. 1948. The penetration of lead through the skin. J Ind Hyg Toxicol 30:256-259.

Laughlin NK, Bowman RE, Franks PS, et al. 1987. Altered menstrual cycles in Rhesus monkeys induced by lead. Fundam Appl Toxicol 9:722-729.

\*Laughlin NK, Bowman RE, Levin ED, et al. 1983. Neurobehavioral consequences of early exposure to lead in Rhesus monkeys: Effects on cognitive behaviors. In: Clarkson TW, Nordberg GF, Sager PR, eds. Reproductive and developmental toxicity of metals. New York, NY: Plenum Press, 497-515.

\*Lauwers MC, Hauspie RC, Susanne C, et al. 1986. Comparison of biometric data of children with high and low levels of lead in the blood. Am J Phys Anthropol 69:107-116.

\*Lauwerys R, Buchet J-P, Roels HA, et al. 1974. Relationship between urinary delta-aminolevulinic acid excretion and the inhibition of red cell delta-aminolevulinate dehydratase by lead. Clin Toxicol 7:383-388.

\*Lauwerys R, Buchet J-P, Roels HA, et al. 1978. Placental transfer of lead, mercury, cadmium, and carbon monoxide in women: I. Comparison of the frequency distributions of the biological indices in maternal and umbilical cord blood. Environ Res 15:278-289.

Laxen DP, Lindsay F, Raab GM, et al. 1988. The variability of lead in dusts within the homes of young children. Environ Geochem Health 10:3-9.

\*Laxen DP, Raab GM, Fulton M. 1987. Children's blood lead and exposure to lead in household dust and water--a basis for an environmental standard for lead in dust. Sci Total Environ 66:235-244.

\*Le Quesne PM. 1987. Clinically used electrophysiological end-points. In: Lowndes HE, ed. Electrophysiology in neurotoxicology. Vol. 1. Piscataway, NJ: Department of Pharmacology and Toxicology, Rutgers, 103-116.

\*Leal-Garza C, Montes De Oca R, Cerda-Flores RM. et al. 1986. Frequency of sister-chromatid exchanges (SCE) in lead exposed workers. Arch Invest Med 17:267-276.

Lee DBN. 1989. The effect of lead on blood pressure, vascular contractility and the renin-angiotensin-aldosterone system in the rat. Washington, DC: Veterans Administration, Research and Development.

\*Lee RG, Becker WC, Collins DW. 1989. Lead at the tap: Sources and control. J Am Water Works Assoc 81:52-62.

# LEAD 534 8. REFERENCES

- \*Leeder JS, Kearns GL. 1997. Pharmacogenetics in pediatrics: Implications for practice. Pediatric Clinics of North America 44:55-77.
- \*Leggett RW. 1993. An age-specific kinetic model of lead metabolism in humans. Environ Health Perspect 101:598-616.
- \*Lenga RE. 1988. The Sigma-Aldrich Libray of Chemical Safety Data. Edition II, Volume 1. Milwaukee, WI: Sigma-Aldrich Corporation, 2071.
- \*Lerda D. 1992. Study of sperm characteristics in persons occupationally exposed to lead. Am J Ind Med 22:567-571.
- \*Leung H. 1993. Physiologically-based pharmacokinetic modeling. In: Ballantine B, Marro T, Turner T, eds. General and applied toxicology. Vol. I. New York, NY: Stockton Press, 153-164.
- \*Levin ED, Bowman RE. 1983. The effect of pre- or postnatal lead exposure on Hamilton search task in monkeys. Neurohehav Toxicol Teratol 5:391-394.
- \*Levin ED, Bowman RE. 1989. Long-term effects of chronic postnatal lead exposure on delayed spatial alternation in monkeys. Neurotoxicol Teratol 10:505-510.
- \*Levin ED, Schneider ML, Ferguson SA. et al. 1988. Behavioral effects of developmental lead exposure in Rhesus monkeys. Dev Psychobiol 21:371-382.
- \*Lewis RJ. 1993. Hawley's condensed chemical dictionary. New York, NY: Van Nostrand Reinhold Company.
- \*Lide DR, ed. 1996. CRC handbook of chemistry and physics. Boca Raton, FL: CRC Press, Inc.
- \*Lilienthal H, Winneke G. 1996. Lead effects on the brain stem auditory evoked potentials in monkeys during and after the treatment phase. Neurotoxicol Teratol 18:17-32.
- \*Lilis R. 1981. Long-term occupational lead exposure, chronic nephropathy, and renal cancer: A case report. Am J Ind Med 2:293-297.
- \*Lilis R, Eisinger J, Blumberg W, et al. 1978. Hemoglobin, serum iron, and zinc protoporphyrin in lead-exposed workers. Environ Health Perspect 25:97-102.
- \*Lilis R, Gavrilescu N, Nestorescu B, el al. 1968. Nephropathy in chronic lead poisoning. Br J Ind Med 25:196-202.
- \*Lin S, Hwang S, Marshall EG, et al. 1996. Fertility rates among lead workers and professional bus drivers: A comparative study. Ann Epidemiol 6:201-208.
- \*Lindgren KN, Masten VL, Ford DP, et al. 1996. Relation of cumulative exposure to inorganic lead and neuropsychological test performance. Occup Environ Med 53(7):472-477.
- Lisiewicz J, Moszczynski P. 1986. [Effects of lead on the hemopoietic system with special regard to the environmental and occupational exposure.] Postepy Hig Med Dosw 40:45-79. (Russian)

Liu J, Yu K, Tong S, el al. 1988. [Study on mutagenesis of lead and its influence on female reproductive function.] Bulletin of Hunan Medical College 13:132-135. (Japanese)

\*Lloyd RD, Mays CW, Atherton DR, et al. 1975. 210Pb studies in Beagles. Health Phys 28:575-583.

Lobanova EA, Sorkina NS, Loshchilov YUA. 1987. [Functional and morphological characteristics of the gastric mucosa in patients with chronic lead poisoning.] Gig Tr Prof Zabol 23-25. (German)

Logdberg B, Berlin M, Schutz A. 1987. Effects of lead exposure on pregnancy outcome and the fetal brain of squirrel monkeys. Scand J Work Environ Health 13:135-145.

\*Lolin Y, O'Gorman P. 1988. An intra-erythrocytic low molecular weight lead-binding protein in acute and chronic lead exposure and its possible protective role in lead toxicity. Ann Clin Biochem 25:688-697.

\*Long GJ, Rosen JF. 1994. Lead perturbs 1,25 dihydroxyvitamin D3 modulation of intracellular calcium metabolism in clonal rat osteoblastic (ros 17/2.8) cells. Life Sci 54(19):1395-1402.

Long GJ, Rosen JF, Pounds JG. 1990. Cellular lead toxicity and metabolism in primary and clonal osteoblastic bone cells. Toxicol Appl Pharmacol 102:346-361.

Lorenzo AV, Gewirtz M, Maher C, et al. 1977. The equilibration of lead between blood and milk of lactating rabbits. Life Sci 21:1679-1683.

\*Lucas SR, Sexton M, Langenberg P. 1996. Relationship between blood lead and nutritional factors in preschool children: A cross-sectional study. Pediatrics 97(1):74-78.

Ludersdorf R, Fuchs A, Mayer P, et al. 1987. Biological assessment of exposure to antimony and lead in the glass-producing industry. Int Arch Occup Environ Health 59:469-474.

\*Lundstrom NG, Nordberg G, Englyst V, et al. 1997. Cumulative lead exposure in relation to mortality and lung cancer morbidity in a cohort of primary smelter workers. Scand J Work Environ Health 23(1):24-30.

\*Luster MI, Faith RE, Kimmel CA. 1978. Depression of humoral immunity in rats following chronic developmental lead exposure. J Environ Pathol Toxicol 1:397-402.

Luthman J, Lindqvist E, Gerhardt GA, et al. 1994. Alterations in central monoamine systems after postnatal lead acetate treatment in rats. Environ Res 65:100-118.

Lynam DR, Pfeifer GD. 1988. Effects of decreasing lead exposures from gasoline and other sources on blood lead levels in man. Third Chemical Congress of North America held at the 195th American Chemical Society Meeting, Toronto, Ontario, Canada, June 5-10, 1988. Abstr Pap Chem Congr North Am 401-404.

Lyngbye T, Hansen O, Grandjean P, et al. 1988b. Traffic as a source of lead exposure in childhood. Sci Total Environ 71:461-467.

\*Lyngbye T, Hansen ON, Grandjean P. 1987. The influence of environmental factors on physical growth in school age: A study of low level lead exposure. In: Lindberg SE, Hutchinson TC, eds. International

# LEAD 536 8. REFERENCES

Conference on Heavy Metals in the Environment, Vol. 2, New Orleans, LA, September. Edinburgh, UK: CEP Consultants, Ltd. 210-212.

Lyngbye T, Hansen ON, Grandjean P. 1988a. Bias from non-participation: A study of low-level lead exposure in children. Scand J Soc Med 16:209-216.

Lyngbye T, Hansen ON, Grandjean P. 1989. Neurological deficits in children: Medical risk factors and lead exposure. Neurotoxicol Teratol 10:531-537.

Lyngbye T, Hansen ON, Trillingsgaard A, et al. 1990a. Learning disabilities in children: Significance of low-level lead-exposure and confounding factors. Acta Paediatr Scan 79:352-360.

\*Lyngbye T. Jorgensen PJ, Grandjean P, et al. 1990b. Validity and interpretation of blood lead levels: A study of Danish school-children. Scand J Clin Lab Invest 50:441-449.

Machle WR. 1935. Tetra-ethyl lead intoxication and poisoning by related compounds of lead. JAMA 105:578-585.

\*Maddaloni M, Lolacono N, Manton W, et al. 1998. Bioavailabilty of soil-borne lead in adults by stable isotope dilution. Environ Health Perspect 106:1589-1594.

\*Maenhaut W, Zoller WH, Duce RA, et al. 1979. Concentration and size distribution of particulate trace elements in the south polar atmosphere. Journal of Geophysical Research 84:2421-2431.

Mahaffey KR. 1990. Biokinetics of lead during pregnancy. Washington, DC: Society of Toxicology. Paper No. 51.

\*Mahaffey KR, Annest JL. 1986. Association of erythrocyte protoporphyrin with blood lead level and iron status in the Second National Health and Nutrition Examination Survey, 1976-1980. Environ Res 41:327-338.

\*Mahaffey KR, Gartside PS, Glueck CJ. 1986. Blood lead levels and dietary calcium intake in 1- to 11-year old children: The Second National Health and Nutrition Examination Survey, 1976 to 1980. Pediatrics 78:257-262.

\*Mahaffey KR, Goyer R, Haseman JK. 1973. Dose-response to lead ingestion in rats fed low dietary calcium. J Lab Clin Med 82:92-100.

\*Mahaffey KR, Rosen JF, Chesney RW, et al. 1982. Association between age, blood lead concentration, and serum 1,25-dihydroxycholecalciferol levels in children. Am J Clin Nutr 35:1327-1331.

Maijkovic T, Plasek M, Kostial K. 1988. Hemopoietic response to lead in perinatally exposed rats. In: Astruc M, Lester JN, eds. Heavy metals in the hydrological cycle. London, England: Selper, 217-222.

\*Maizlish NA, Parra G, Feo O. 1995. Neurobehavioral evaluation of Venezuelan workers exposed to inorganic lead. Occup Environ Med 52:408-414.

\*Maki-Paakkanen J, Sorsa M, Vainio H. 1981. Chromosome aberrations and sister chromatid exchanges in lead-exposed workers. Hereditas 94:269-275.

# LEAD 537 8. REFERENCES

- \*Malcolm D, Barnett HAR. 1982. A mortality study of lead workers: 1925-76. Br J Ind Med 39:404-410.
- \*Malkin R, Brandt-Rauf P, Graziano J, et al. 1992. Blood lead levels in incinerator workers. Environ Res 59:265-270.
- \*Manceau A, Boisset M-C, Sarret G, et al. 1996. Direct determination of lead speciation in contaminated soils by EXAFS spectroscopy. Environ Science & Technology 30(5):1540-1552.
- \*Mansell RS, Ou L, Rhue RD, et al. 1995. The fate behavior of lead alkyls in the subsurface environment. Air Force Material Command. Tyndall Air Force Base, Florida. Armstrong Laboratory Report AL/EQ-TR-1994-0026.
- \*Mantere P, Haenninen H, Hernberg S. 1982. Subclinical neurotoxic lead effects: Two-year follow-up studies with psychological test methods. Neurobehav Toxicol Teratol 4:725-727.
- Manton WI. 1985. Total contribution of airborne lead to blood lead. Br J Ind Med 42:168-172.
- \*Manton WI. Cook JD. 1984. High-accuracy (stable isotope dilution) measurements of lead in serum and cerebrospinal fluid. Br J Ind Med 41:313-319.
- \*Maranelli G, Apostoli P. 1987. Assessment of renal function in lead poisoned workers. Occup Environ Chem Hazards 344-348.
- \*Marcus AH. 1985a. Multicompartment kinetic models for lead: I. Bone diffusion models for long-term retention. Environ Res 36:442-458.
- \*Marcus AH. 1985b. Multicompartment kinetic models for lead: II. Linear kinetics and variable absorption in humans without excessive lead exposure. Environ Res 36:459-472.
- \*Marcus AH. 1985c. Multicompartment kinetic models for lead: III. Lead in blood plasma and erythrocytes. Environ Res 36:473-489.
- \*Marcus AH, Schwartz J. 1987. Dose-response curves for erythrocyte protoporphyrin vs blood lead: Effects of iron status. Environ Res 44:221-227.
- \*Marino PE, Franzblau A, Lilis R, et al. 1989. Acute lead poisoning in construction workers: The failure of current protective standards. Arch Environ Health 44:140-145.
- \*Markowitz ME, Rosen JF. 1981. Zinc (Zn) and copper (Cu) metabolism in CaNa2 EDTA-treated children with plumbism. Pediatr Res 15:635.
- \*Markowitz ME, Weinberger HL. 1990. Immobilization-related lead toxicity in previously lead-poisoned children. Pediatrics 86:455-457.
- \*Massaro EJ, Massaro TF. 1987. Low level lead exposure during neonatal development perturbs cognitive function. Am Coll Toxicol 6:441-449.

Masters RD and Coplan MJ. 1999. Water treatment with silicofluorides and lead toxicity. International Journal of Environmental Studies (in press).

\*Matte TD, Figueroa JP, Burr G, et al. 1989. Lead exposure among lead-acid battery workers in Jamaica. Am J Ind Med 16:167-177.

Mattson S, Christoffersson JO, Jonson R, et al. 1987. X-ray fluorescence technique for *in vivo* analysis of "natural" and administered trace elements. In: Elis, Yasumuru, Morgan, eds. *In vivo* body composition studies. New York, NY: Brookhaven National Laboratory, The Institute of Physical Sciences in Medicine.

Mayer-Popken O, Denkhaus W, Konietzko H. 1986. Lead content of fetal tissues after maternal intoxication. Arch Toxicol 58:203-204.

\*McBride WG, Black BP, English BJ. 1982. Blood lead levels and behavior of 400 preschool children. Med J Aust 10:2(1):26-29.

\*McBride WG, Cooney GC, Bell A. 1987. Blood lead levels in Sydney urban children. In: Lindberg SE, Hutchinson TC, eds. International Conference on Heavy Metals in the Environment, Vol. I, New Orleans, LA, September. Edinburgh. UK: CEP Consultants, Ltd. 153-155.

\*McCauley PT, Bull RJ, Lutkenhoff SD. 1979. Association of alterations in energy metabolism with lead-induced delay in rat cerebral cortical development. Neuropharmacology 18:93-101.

\*McCauley PT, Bull RJ, Tonti AP, et al. 1982. The effect of prenatal and postnatal lead exposure on neonatal synaptogenesis in rat cerebral cortex. J Toxicol Environ Health 10:639-651.

\*McClain RM, Becker BA. 1972. Effects of organolead compounds on rat embryonic and fetal development. Toxicol Appl Pharmacol 21:265-274.

McCormack WB, Moore R, Sandy CA. 1981. Lead compounds (organolead). In: Grayson M, ed. Kirk-Othmer encyclopedia of chemical technology. 3rd ed. Vol. 14. New York, NY: John Wiley and Sons, 182.

McCurdy PP. 1988. Chemical Week buyer's guide 1988. New York, NY: McGraw-Hill. Inc., 332.

\*McDonald JA, Potter NU. 1996. Lead's legacy? Early and late mortality of 454 lead-poisoned children. Arch Environ Health 51:116-121.

\*McDonald ME. 1985. Acid deposition and drinking water. Environ Sci Technol 19:772-776.

McDowell J, Kitchen I. 1988. Perinatal lead exposure alters the development of  $\delta$ - but not  $\mu$ -opioid receptors in rat brain. Br J Pharmacol 94:933-937.

McInnes G. 1988. Airborne lead concentrations and the effect of reductions in the lead content of petrol. Govt Reports Announcements & Index (GRA&I). NTIS/PB88-151345, Issue 09.

\*McMichael AJ, Baghurst PA, Vimpani GV, et al. 1994. Tooth lead levels and IQ in school-age children: The Port Pirie cohort study. Am J Epidemiol 140:489-499.

# LEAD 539 8. REFERENCES

- \*McMichael AJ, Baghurst PA, Wigg NR, et al. 1988. Port Pirie cohort study: Environmental exposure to lead and children's abilities at the age of four years. N Engl J Med 319:468-476.
- \*McMichael AJ, Vimpani GV, Robertson EF, et al. 1986. The Port Pirie cohort study: Maternal blood lead and pregnancy outcome. J Epidemiol Community 40:18-25.
- Mehta FR. 1990. Lead absorption in workers handling lead products. Indian J Ind Med 36:15-20.
- \*Mele PC, Bushnell PJ, Bowman RE. 1984. Prolonged behavioral effects of early postnatal lead exposure in rhesus monkeys: Fixed-interval responding and interactions with scopolamine and pentobarbital. Neurobehav Toxicol Teratol 6:129-135.
- \*Merck. 1989. Merck index: an encyclopedia of chemicals, drugs, and biologicals. 11th ed. Budavari S, ed. Rahway NJ: Merck & Co., Inc.
- \*Meredith PA, Moore MR. 1979. The influence of lead on heme biosynthesis and biodegradation in the rat. Biochem Soc Trans 7:637-639.
- \*Meredith PA, Moore MR, Campbell BC, et al. 1978. Delta-aminolevulinic acid metabolism in normal and lead-exposed humans. Toxicology 9:1-9.
- \*Michaels D, Zoloth SR, Stern FB. 1991. Does low-level lead exposure increase risk of death?: A mortality study of newspaper printers. Int J Epidemiol 20:978-983.
- \*Michaelson A, Sauerhoff MW. 1974. An improved model of lead-induced brain dysfunction in the suckling rat. Toxicol Appl Pharmacol 28:88-96.
- \*Mielke H. Burroughs S. Wade R. et al. 1984/1985. Urban lead in Minnesota: Soil transect results of four cities. Minnesota Academy of Science 50:19-24.
- Mielke HW. 1984. Hearing before the committee on environment and public works, United States Senate. Ninety-eighth Congress. Second session. Washington, DC.
- \*Mielke HW. 1991. Lead in residential soils: Background and preliminary results of New Orleans. Water Air Soil Pollut 57-58:111-119.
- \*Mielke HW. 1992. Lead dust contaminated U.S.A. communities: Comparison of Louisiana and Minnesota. Applied Geochemistry 6:1-16.
- \*Mielke HW, Adams JE, Huff B, et al. 1992. Dust control as a means of reducing inner-city childhood Pb exposure. In: Hemphill DH, Beck B, eds. Trace substance in environmental health-XXV. Columbia, MO: University of Missouri.
- \*Mielke HW, Adams JL. 1989. Environmental lead risk in the twin cities. Center for Urban and Regional Affairs. Hubert H. Humphrey Center. CURA 89-84.
- \*Mielke HW, Adams JL, Reagan PL, et al. 1989. Soil-dust lead and childhood lead exposure as a function of city size and community traffic flow: The case for lead abatement in Minnesota. Environ Chem Health 9(Supp):253-271.

### LEAD 540 8. REFERENCES

- \*Mielke HW, Anderson JC, Berry KJ, et al. 1983. Lead concentrations in inner-city soils as a factor in the child lead problem. Am J Public Health, 73:1366-1369.
- \*Mielke HW, Dugas D, Mielke PW Jr, et al. 1997a. Associations between soil lead and childhood blood lead in urban New Orleans and rural Lafourche Parish of Louisiana. Environ Health Perspect 105(9):950-954.
- \*Mielke HW, Taylor MD, Gonzales CR, et al. 1997b. Lead-based hair coloring products: Too hazardous for household use. J Am Pharm Assn 37:85-89.
- \*Milburn H, Mitran E. Crockford GW. 1976. An investigation of lead workers for subclinical effects of lead using three performance tests. Ann Occup Hyg 19:239-249.
- Millar JA, Cummings RLC, Battistini V, et al. 1970. Lead and delta-aminolevulinic acid dehydratase levels in mentally retarded children and in lead-poisoning in suckling rats. Lancet 2:695-698.
- \*Miller CD, Buck WB, Hembrough FB, et al. 1982. Fetal rat development as influenced by maternal lead exposure. Vet Hum Toxicol 24:163-166.
- \*Miller EK, Friedland AJ. 1994. Lead migration in forest soils: Response to changing atmospheric inputs. Environ Sci Technol 28:662-669.
- \*Miller GD, Massaro TF, Granlund RW, et al. 1983. Tissue distribution of lead in the neonatal rat exposed to multiple doses of lead acetate. J Toxicol Environ Health 11:121-128.
- \*Miller MB, Curry SC, Kunkel DB, et al. 1996. Pool cue chalk: a source of environmental lead. Pediatrics 97(6 Pt 1):916-917.
- \*Miller TE, Golemboski KA, Ha RS, et al. 1998. Developmental exposure to lead causes persistent immunotoxicity in Fischer 344 rats. Toxicol Sci 42:129-135.
- \*Min YI, Correa-Villasenor A, Stewart PA. 1996. Parental occupational lead exposure and low birth weight. Am J Ind Med 30(5):569-578.
- \*Minnema DJ, Hammond PB. 1994. Effect of lead exposure on patterns of food intake in weanling rats. Neurotoxicol Teratol 16:623-629.
- \*Mistry P, Lucier GW, Fowler BA. 1985. High affinity lead binding proteins from rat kidney cytosol mediate cell-free nuclear translocation of lead. J Pharmacol Exp Ther 232:462-469.
- \*Mistry P, Mastri C, Fowler BA. 1986. Influence of metal ions on renal cytosolic lead-binding proteins and nuclear uptake of lead in the kidney. Biochem Pharmacol 35:711-713.
- Mitchell JW. 1987. Lead toxicity and reproduction. J Occup Med 29:397-399.
- \*Momcilovic B, Kostial K. 1974. Kinetics of lead retention and distribution in suckling and adult rats. Environ Res 8:214-220.

# LEAD 541 8. REFERENCES

- \*Monteiro HP, Bechara EJH, Abdalla DSP. 1991. Free radicals involvement in neurological porphyrias and lead poisoning. Mol Cell Biochem 103:73-83.
- \*Moore JF, Goyer RA. 1974. Lead-induced inclusion bodies: Composition and probable role in lead metabolism. Environ Health Perspect 7:121-127.
- \*Moore MR, Bushnell WR, Goldberg A. 1989. A prospective study of the results of changes in environmental lead exposure in children in Glasgow. In: Smith M. Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- \*Moore MR, Goldberg A. 1985. Health implication of the hematopoietic effects of lead. In: Mahaffey KR, ed. Dietary and environmental lead: Human health effects. Amsterdam, The Netherlands: Elsevier Science Publishers B.V.
- \*Moore MR, Goldberg A, Pocock SJ, et al. 1982. Some studies of maternal and infant lead exposure in Glasgow. Scott Med J 27:113-122.

Moore MR, Goldberg A, Yeung-Laiwah AAC. 1987. Lead effects on the heme biosynthetic pathway: Relationship to toxicity. Ann NY Acad Sci 514:191-203.

Moore MR, McIntosh MJ, Bushnell IWR. 1986. The neurotoxicology of lead. Neurotoxicol 7:541-556.

- \*Moore MR, Meredith PA, Watson WS, et al. 1980. The percutaneous absorption of lead-203 in humans from cosmetic preparations containing lead acetate, as assessed by whole-body counting and other techniques. Food Cosmet Toxicol 18:399-405.
- \*Moore PV. 1995. Lead toxicity-by the Agency for Toxic Substances and Disease Registry. Aaohn Journal 43(8):428-38; Quiz 439-40.

Moorhouse SR, Carden S, Drewitt PN, et al. 1988. The effect of chronic low level lead exposure on blood-brain barrier function in the developing rat. Biochem Pharmacol 37:4539-4547.

Mooty J, Ferrand CF, Harris P. 1975. Relationship of diet to lead poisoning in children. Pediatrics 55:636-639.

Moreau T, Orssaud G, Juguet B, et al. 1982. [Blood lead levels and arterial pressure: Initial results of a cross sectional study of 431 male subjects.] Rev Epidemol Sante Publique 39:395-397. (French)

- \*Morgan A, Holmes A. 1978. The fate of lead in petrol-engine exhaust particulates inhaled by the rat. Environ Res 15:44-56.
- \*Morgan A, Holmes A, Evans JC. 1977. Retention, distribution, and excretion of lead by the rat after intravenous injection. Br J Ind Med 34:37-42.
- \*Morita Y, Sakai T, Araki S, et al. 1997. Nicotinamide adenine dinucleotide synthetase activity in erythrocytes as a tool for the biological monitoring of lead exposure. Int Arch Occup Environ Health 70(3):195-198.

### LEAD 542 8. REFERENCES

- Morrell G, Giridhar G. 1976. Rapid micromethod for blood lead analysis by anodic stripping voltammetry. Clin Chem 22:221-223.
- \*Morris V, Markowitz ME, Rosen JF. 1988. Serial measurements of aminolevulinic acid dehydratase in children with lead toxicity. J Pediatr 112:916-919.
- \*Morrison JN, Quarterman H, Humphries WR. 1977. The effect of dietary calcium and phosphate on lead poisoning in lambs. J Comp Pathol 87:417-429.
- \*Morrison JN, Quatermann J. 1987. The relationship between iron status and lead absorption in rats. Biol Trace Element Res 14:115-126.
- \*Morrow PE, Beiter H. Amato F, et al. 1980. Pulmonany retention of lead: An experimental study in man. Environ Res 21:373-384.
- \*Morselli PL, Franco-Morselli R, Bossi L. 1980. Clinical Pharmacokinetics in Newborns and Infants. Clinical Pharmacokinetics 5:485-527.
- Morton AP, Partridge S, Blair JA. 1985. The intestinal uptake of lead. Chem Br 21:926-927.
- \*Muijser H, Hoogendijk EM, Hooisma J, et al. 1987. Lead exposure during demolition of a steel structure coated with lead-based paints. II. Reversible changes in the conduction velocity of the motor nerves in transiently exposed workers. Scand J Work Environ Health 13:56-61.
- \*Muldoon SB, Cauley JA, Kuller LH, et al. 1996. Effects of blood lead levels on cognitive function of older women. Neuroepidemiology 15(2):62-72.
- \*Mundell JA, Hill KR, Weaver JW II. 1989. In situ case history: Leachable lead required precipitation immobilization. Hazardous Waste Management 23-27.
- Munro IC, Willes RF, Truelove JF. 1975. Absorption and tissue distribution of inorganic lead in the developing infant monkey (Macaca irus). Toxicol Appl Pharmacol 32:128-129.
- \*Murata K, Araki S, Yokoyama K, et al. 1995. Autonomic and central nervous system effects of lead in female glass workers in China. Am J Ind Med 28(2):233-244.
- \*Muro LA, Goyer RA. 1969. Chromosome damage in experimental lead poisoning. Arch Pathol 87:660-663.
- \*Murphy MJ, Graziano JH, Popovac D, et al. 1990. Past pregnancy outcomes among women living in the vicinity of a lead smelter in Kosovo, Yugoslavia. Am J Public Health 80:33-35.
- \*Murray HM, Gurule M, Zenick H. 1978. Effects of lead exposure on the developing rat parietal cortex. In: Wahlum DD, Sikov MR, Hackett PD, et al., eds. Developmental toxicology of energy-related pollutants. Proc 17th Ann Hanford Biology Symp, October 1977, Richland, WA- Washington DC: U.S. Department of Energy (Symposium series vol. 47), 520-535. NTIS CONF-771017.
- \*Murray K, Bazzi A, Carter C, et al. 1997. Distribution and mobility of lead in soils at an outdoor shooting range. Journal of Soil Contamination 6(1):79-93.

# LEAD 543 8. REFERENCES

- \*Mushak P. 1991. Gastro-intestinal absorption of lead in children and adults: Overview of biological and biophysico-chemical aspects. Chemical Speciation and Bioavailability 3:87-104.
- \*Mushak P. 1993. New directions in the toxicokinetics of human lead exposure. Neurotoxicology 14:29-42.
- \*Mushak P, Crocetti AF. 1989. Determination of numbers of lead-exposed American children as a function of lead source: Integrated summary of a report to the U.S. Congress on childhood lead poisoning. Environ Res 50:210-229.
- \*Mushak P, Crocetti AF. 1996. Lead and nutrition. I: Biologic interactions of lead with nutrients. Nutrition Today 31:12-17.
- Mushak P, Davis JM, Crocetti AF, et al. 1989. Prenatal and postnatal effects of low-level lead exposure: Integrated summary of a report to the U.S. Congress on childhood lead poisoning. Environ Res 50:11-36.
- \*MVMA. 1992. National gasoline fuel survey. Detroit, MI: Motor Vehicles Manufacturers' Association. Personal communication from Jim Steiger, October 14.
- \*Mykkänen HM, Wasserman RH. 1981. Gastro-intestinal absorption of lead (203Pb) in chicks: Influence of lead, calcium and age. J Nutr 111:1757-1765.
- Mykkänen H, Rasanen L, Ahola M, et al. 1986. Dietary intakes of mercury, lead, cadmium, and arsenic by Finnish children. Hum Nutr Appl Nutr 40:32-39.
- \*Mykkänen HM, Wasserman RH. 1982. Effect of vitamin D on the intestinal absorption of 203Pb and 47Ca in chicks. J Nutr 112:520-527.
- Mylroie AA, Moore L, Olyai B, et al. 1978. Increased susceptibility to lead toxicity in rats fed semipurified diets. Environ Res 15:57-64.
- \*NAS. 1972. Lead: Airborne lead in perspective: Biologic effects of atmospheric pollutants. Washington, DC: National Academy of Sciences, 71-177, 281-313.
- NAS. 1977. Drinking water and health. Washington, DC: National Academy of Sciences 1:309-311.
- \*NAS. 1980. Lead in the human environment. Washington DC: National Academy of Sciences, Committee on Lead in the Human Environment.
- \*NAS/NRC. 1989. Biologic markers in reproductive toxicology. National Academy of Sciences National Research Council. Washington, DC: National Academy Press, 15-35.
- \*NAS/NRC. 1989. Biological markers in reproductive toxicology. National Research Council. Board of Environmental Studies and Toxicology. Committee on Biological Markers, pp. 15-35.
- \*NATICH. 1992. National Air Toxics Information Clearinghouse. Report on state, local, and EPA air toxics activities. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC. December 1992.

Nation JR, Burkey RT. 1994. Attenuation of cocaine-induced elevation of nucleus accumbens dopamine in lead-exposed rats. Brain Res Bull 35:101-105.

\*Nation JR, Grover CA, Bratton GR, et al. 1990. Behavioral antagonism between lead and cadmium. Neurotoxicol Teratol 12:99-104.

Nation JR, Liver, ore CL, Burkey RT. 1996. Chronic lead exposure attenuates sensitization to the locomotor-stimulating effects of cocaine. Drug Alcohol Dependence 41:143-149.

\*National Research Council (NRC). 1993. Pesticides in the Diets of Infants and Children. Washington DC: National Academy Press.

\*Nayak BN, Ray M, Persaud TVN. 1989a. Maternal and fetal chromosomal aberrations in mice following prenatal exposure to subembryotoxic doses of lead nitrate. Acta Anat 135:185-188.

Nayak BN, Ray M, Persaud TVN. 1989b. Relationship of embryotoxicity to genotoxicity of lead nitrate in mice. Exp Pathol 36:65-73.

NCI. 1985. Monograph on human exposure to chemicals in the workplace: Lead final report. Washington, DC: U. S. Department of Health and Human Services, National Cancer Institute. July, 1985.

Needleman HL. 1987a. Low-level lead exposure in the fetus and young child. Neurotoxicology 8:389-393.

\*Needleman HL. 1987b. Low-level lead exposure and children's intelligence: A quantitative and critical review of modern studies. In: Lindberg SE. Hutchinson TC, eds. International conference on Heavy Metals in the Environment, Vol. 1, New Orleans, LA. September, Edinburgh, UK: CEP Consultants, Ltd., 1-8.

Needleman HL. 1988. The neurotoxic teratogenic, and behavioral teratogenic effects of lead at low dose: A paradigm for transplacental toxicants. Prog Clin Biol Res 281:279-287.

\*Needleman HL, Bellinger DC. 1989. Type II fallacies in the study of childhood exposure to lead at low dose: A critical and quantitative review. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.

Needleman HL, Gatsonis CA. 1990. Low-level lead exposure and the IQ of children: A meta-analysis of modern studies. J Am Med Assoc 263(5):673-678.

\*Needleman HL, Geiger SK, Frank R. 1985. Lead and IQ scores: A reanalysis (letter). Science 227:701-704.

\*Needleman HL, Gunnoe C, Leviton A, et al. 1979. Deficits in psychologic and classroom performance of children with elevated dentine lead levels. N Engl J Med 300:689-695.

Needleman HL, Leviton A, Bellinger D. 1982. Lead-associated intellectual deficit (letter). N Engl J Med 306:367.

# LEAD 545 8. REFERENCES

- \*Needleman HL, Rabinowitz M, Leviton A, et al. 1984. The relationship between prenatal exposure to lead and congenital anomalies. JAMA 251:2956-2959.
- \*Needleman HL, Riess JA, Tobin MJ, et al. 1996. Bone lead levels and delinquent behavior. JAMA 275(5):363-369.
- \*Needleman HL, Schell A, Bellinger D. et al. 1990. The long-term effects of exposure to low doses of lead in childhood. An 11-year follow-up report. N Engl J Med 322:83-88.
- Needleman HL, Shapiro IM. 1974. Dentine lead levels in asymptomatic Philadelphia school children: Subclinical exposure in high and low risk groups. Environ Health Perspect 7:27-31.
- \*Neri LC, Hewitt D, Orser B. 1988. Blood lead and blood pressure: Analysis of cross-sectional and longitudinal data from Canada. Environ Health Perspect 78:123-126.
- \*Nerin C, Olavide S, Cacho J, et al. 1989. Determination of lead in airborne particulate by hybrid generation. Water Air Soil Pollut 44:339-345.
- \*Nestmann ER, Matula TI, Douglas GR, et al. 1979. Detection of the mutagenic activity of lead chromate using a battery of microbial tests. Mut Res 66:357-365.
- \*Neuman DR, Dollhopf DJ. 1992. Lead levels in blood from cattle residing near a lead smelter. J Environ Qual 21:181-184.
- \*Newland C, Yezhou S, Logdberg B, et al. 1996. *In utero* lead exposure in squirrel monkeys: Motor effects seen with schedule-controlled behavior. Neurotoxicol Teratol 18:33-40.
- \*NFPA. 1992. National Food Processors Association. Public comment on the toxicological profile for lead. Submitted to the Academy for Toxic Substances and Disease Registry. Washington, DC. February 94, 1992.
- \*Ng TP, Goh HH, Ong HY, et al. 1991. Male endocrine functions in workers with moderate exposure to lead. Br J Ind Med 48:485-491.
- \*Niebuhr E, Wulf HC. 1984. Chapter 9: Genotoxic Effects. In: Grandjean P, ed. Biological effects of organo-lead compounds. Boca Raton, FL: CRC Press, 117-124.
- Nieburg PI, Weiner LS, Oski BF, et al. 1974. Red blood cell delta-aminolevulinic acid dehydrase activity. Am J Dis Child 127:348-350.
- \*Nielsen T. 1984. Chapter 6: Atmospheric occurrence of organolead compounds. In: Grandjean P, ed. Biological effects of organolead compounds. Boca Raton, FL: CRC Press, 43-62.
- \*Nielsen T, Jensen KA, Grandjean P. 1978. Organic lead in normal human brains. Nature 274:602-603.
- \*Nilsson U, Attewell R, Christoffersson JO, et al. 1991. Kinetics of lead in bone and blood after end of occupational exposure. Pharmacol Toxicol 69:477-484.

#### LEAD 546 8. REFERENCES

- \*NIOSH. 1974. Evaluation of behavioral functions in workers exposed to lead. In: Xintaras C, Johnson BL, De Groot 1, eds. Behavioral toxicology: Early detection of occupational hazards. Cincinnati, OH: U.S. Department of Health, Education and Welfare, National Institute for Occupational Safety and Health, 248-266.
- \*NIOSH. 1977a. Manual of analytical methods. 2nd ed, vol. 1. Method No. P&CAM 102. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1977b. Manual of analytical methods. 2nd ed. vol. 1. Method No. P&CAM 173. Cincinnati, OH: U.S. Department of Health, Education, and Welfare. Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1977c. Manual of analytical methods. 2nd ed, vol. 1. Method No. P&CAM 191. Cincinnati, OH: U.S. Department of Health, Education, and Welfare. Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, 191-1 to 191-9.
- \*NIOSH. 1977d. Manual of analytical methods. 2nd ed, vol. 1. Method No. P&CW 195. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1977e. Manual of analytical methods. 2nd ed, vol. 1. Method No. P&CAM 200. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, 200-1 to 200-8.
- \*NIOSH. 1977f. Manual of analytical methods. 2nd ed, vol. 1. Method No. P&CAM 208. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1977g. Manual of analytical methods. 2nd ed, vol. 1. Method No. P&CAM 214. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control. National Institute for Occupational Safety and Health. 214-1 to 214-6
- \*NIOSH. 1977h. Manual of analytical methods. 2nd ed. vol. 1. Method No. P&CAM 262. Cincinnati, OH: U.S. Department of Health, Education. and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1977i. Manual of analytical methods. 2nd ed, vol. 3. Method No. S341. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
- NIOSH. 1977j. National occupational hazard survey. Vol. III: Survey analysis and supplemental tables. Cincinnati, OH: U.S. Department of Health, Education. and Welfare. Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Division of Surveillance, Hazard Evaluations. and Field Studies. DHEW (NIOSH) Publication No. 78-114, 346.
- \*NIOSH. 1978a. Criteria for a recommended standard: Occupational exposure to inorganic lead revised criteria. 1978. Cincinnati, OH: U.S. Department of Health. Education, and Welfare, Centers for Disease Control, National Institute for Occupational Safety and Health, 78-158.

# LEAD 547 8. REFERENCES

- \*NIOSH. 1978b. Manual of analytical methods. 2nd ed, vol. 4. Method No. 383 and 384. Cincinnati, OH: U.S. Department of Health, Education. and Welfare, Centers for Disease Control, National Institute for Occupational Safety and Health, S383-1 to S383-10, S384-1 to S384-10.
- \*NIOSH. 1981. Manual of analytical methods. Vol. 7. Method P&CAM 351. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health, 351-1 to 351-11.
- \*NIOSH. 1984. Manual of analytical methods. 3rd ed, vol. 1. Method No. 7300, 8003, and 8310. Cincinnati. OH: U.S. Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1985a. Manual of analytical methods. 3rd ed, vol. 1. Method No. 8005. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1985b. Pocket guide to chemical hazards. Cincinnati OH: U.S. Department of Heath and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health. DHEW (NIOSH) No. 78-210.
- \*NIOSH. 1987. Manual of analytical methods. 3rd ed, vol. 1. Method No. 2533 and 2534. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1990. Manual of analytical methods. 3rd ed, vol. I. Method No. 7105. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1992. NIOSH recommendations for occupational safety and health: Compendium of policy documents and statements. Cincinnati, OH: U.S. Department of Heath and Human Services. Centers for Disease Control. National Institute of Occupational Safety and Health.
- \*NIOSH. 1994. NIOSH Manual of Analytical Methods, 4th edition. Methods 7082 (Lead by Flame AAS), 7105 (Lead by HGAAS), 7505 (Lead Sulfide), 8003 (Lead in blood and urine), 9100 (Lead in Surface Wipe Samples), U.S. Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational Safety and Health.
- \*NIOSH. 1995. Report to Congress on Workers' Home Contamination. Study Conducted Under the Workers' Family Protection.
- \*NIOSH. 1996. NIOSH Health Hazard Evaluation Report, HETA 91-0346-2572, FBI Academy, Quantico, Virginia. Michael E. Barsan and Aubrey Miller, US Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.
- \*NIOSH. 1997a. NIOSH pocket guide to chemical hazards. U.S. Department of Health and Human Services. Public Health Service. Centers for Disease Control and Prevention. National Institute for Occupational Safety and Health.

### LEAD 548 8. REFERENCES

- \*NIOSH. 1997b. Protecting workers exposed to lead-based paint hazards. A report to congress. DHHS (NIOSH) Publication No. 98-112. January 1997. U.S. Department of Health and Human Services, Center for Disease Control and Prevention, and National Institute for Occupational Safety and Health, pp. 1-74.
- \*Nishioka H. 1975. Mutagenic activities of metal compounds in bacteria. Mut Res 31:185-189.
- \*NLSP. 1998. Reference guide for consumers. Part 5. guide for general information on state lead programs. National Lead Service Providers' Listing System. <a href="http://www.leadlisting.org">http://www.leadlisting.org</a>
- \*Noack S, Lilienthal H, Winneke G, et al. 1996. Immunohistochemical localization of neuronal and glial calcium-binding proteins in hippocampus of chronically low level lead exposed Rhesus monkeys. Neurotoxicology 17(3-4):679-684.
- \*Nordensön I, Beckman G, Beckman L, et al. 1978. Occupational and environmental risks in and around a smelter in northern Sweden: IV. Chromosomal aberrations in workers exposed to lead. Hereditas 88:263-267.
- Nordstrom S, Beckman L, Nordensen I. 1978. Occupational and environmental risks in and around a smelter in northern Sweden: I. Variations in birth weight. Hereditas 88:43-46.
- \*Nordstrom S, Beckman L, Nordensen I. 1979. Occupational and environmental risks in and around a smelter in northern Sweden: V. Spontaneous abortion among female employees and decreased birth weight in their offspring. Hereditas 90:291-296.
- \*NREPC. 1986. Proposed regulation. Frankfort, KY: Department for Environmental Protection, Natural Resources and Environmental Protection Cabinet. 40l KAR 63:021.
- \*NREPC. 1987. Kentucky waste management regulations. Frankfort, KY: Department for Environmental Protection, Division of Water, Natural Resources and Environmental Protection Cabinet. 401 KAR 5:031.
- \*NREPC. 1988. Kentucky waste management regulations. Frankfort, KY: Department for Environmental Protection. Division of Water, Natural Resources and Environmental Protection Cabinet. 401 KAR, Chapters 30-49.
- \*Nriagu JO. 1978. Lead in soils, sediments and major rock types. In: Nriagu JO, ed. The biogeochemistry of lead in the environment. Part A. Ecological cycles. New York, NY: Elsevier/North-Holland Biomedical Press, 15-72.
- \*NSF. 1977. Lead in the environment. (Boggess WR, ed.) Washington, DC: National Science Foundation. NSFIRA-770214.
- \*NTP. 1994. Seventh annual report on carcinogens. U.S. Department of Health and Human Services. Public Health Service.
- \*NTP. 1998. Eighth report on carcinogens. 1998 summary. Lead acetate and lead phosphate. U.S. Department of Health and Human Services. Public Health Service. National Toxicology Program.
- \*Nwosu JU, Harding AK, Linder G. 1995. Cadmium and lead uptake by edible crops grown in a silt loam soil. Bull Environ Contam Toxicol 54:570-578.

# LEAD 549 8. REFERENCES

- \*Nye LJJ. 1929. An investigation of the extraordinary incidence of chronic nephritis in young people in Queensland. Med J Aust 2:145-159.
- O'Flaherty EJ. 1986. The rate of decline of blood lead in lead industry workers during medical removal: The effect of job tenure. Fundam Appl Toxicol 6:372-380.
- \*O'Flaherty EJ. 1987. Modeling: An introduction. In: Pharmacokinetics in risk assessment: Drinking water and health, vol 8. National Academy of Sciences, Washington, D.C.: National Academy Press, 27-3.
- \*O'Flaherty EJ. 1991a. Physiologically based models for bone-seeking elements. II. Kinetics of lead disposition in rats. Toxicol Appl Pharmacol 111:313-331.
- \*O'Flaherty EJ. 1991b. Physiologically based models for bone-seeking elements. III. Human skeletal and bone growth. Toxicol Appl Pharmacol 111:332-341.
- \*O'Flaherty EJ. 1993. Physiologically based models for bone-seeking elements. IV. Kinetics of lead disposition in humans. Toxicol Appl Pharmacol 118:16-29.
- \*O'Flaherty EJ. 1995a. Physiologically based models for bone-seeking elements. V. Lead absorbtion and disposition in childhood. Toxicol Appl Pharmacol 131:297-308.
- \*O'Flaherty EJ. 1995b. PBK modeling for metals. Examples with lead, uranium, and chromium. Toxicol Lett 82/83:367-372.
- \*O'Flaherty EJ, Hammond PB, Lerner SI. 1982. Dependence of apparent blood lead half-life on the length of previous lead exposure in humans. Fund Appl Toxicol 2:49-54.
- \*O'Riordan ML, Evans HJ. 1974. Absence of significant chromosome damage in males occupationally exposed to lead. Nature 247:50-53.
- \*Oberdörster G. 1992. Pulmonary deposition, clearance and effects of inhaled soluble and insoluble cadmium compounds. In: Nordberg GF, Herber RFM, Alessio L, eds. Cadmium in the human environment: Toxicity and carcinogenicity. Lyon: International Agency for Research on Cancer, 189-204.
- Odone P, Castoldi MR, Guercilena S, et al. 1979. Erythrocyte zinc protoporphyrin as an indicator of the biological effect of lead in adults and children. In: International Conference on Management and Control of Heavy Metals in the Environment, London, United Kingdom, September. Edinburgh, UK: CEP Consultants, Ltd., 66-69.
- Ohmori S, Harada K, Miura H. 1986a. Behavior of biological parameters for lead exposure in Japanese male workers: I. Actual levels of parameters in different lead exposure. Kumamoto Med J 39:187-199.
- Ohmori S, Harada K, Miura H. 1986b. Behavior of biological parameters for lead exposure in Japanese male workers: II. Dose-response relationships between Pb-B and the parameters. Kumamoto Med J 39:201-229.

### LEAD 550 8. REFERENCES

- \*Oishi H, Nomiyama H, Nomiyama K, et al. 1996. Fluorometric HPLC determination of delta-aminolevulinic acid (ALA) in the plasma and urine of lead workers: biological indicators of lead exposure. J Anal Toxicol 20(2):106-10.
- Okamoto Y, Kawai M. 1988. Significance of various biochemical indicators in lead exposure. Acta Sch Med Univ Gifu 36:238-252.
- \*Oldereid NB, Thomassen Y, Attramadal A, et al. 1993. Concentrations of lead, cadmium and zinc in the tissues of reproductive organs of men. J Reprod Fertil 99:421-425.
- \*Olson KW, Skogerboe RK. 1975. Identification of soil lead compounds from automotive sources. Environmental Science and Technology 9:227-230.
- \*Ong CN, Endo G, Chia KS, et al. 1987. Evaluation of renal function in workers with low blood lead levels. In: Fao V, Emmett EA, Maroni M, et al., eds. Occupational and environmental chemical hazards. Chichester: Ellis Horwood Limited, 327-333.
- \*Ong CN, Lee WR. 1980a. Distribution of lead-203 in human peripheral blood *in vitro*. Br J Ind Med 37:78-84
- \*Ong CN, Lee WR. 1980b. Interaction of calcium and lead in human erythrocytes. Br J Ind Med 37:70-77.
- \*Ong CN, Lee WR. 1980c. High affinity of lead for fetal hemoglobin. Br J Ind Med 37:292-298.
- \*Ong CN, Phoon WO, Law HY, et al. 1985. Concentrations of lead in maternal blood, cord blood, and breast milk. Archives of Disease in Childhood 60:756-759.
- Orssaud G, Claude JR, Moreau T, et al. 1985. Blood lead concentration and blood pressure. Br Med J 290:244.
- \*OSHA. 1974. U.S. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1000 (Table Z-1).
- \*OSHA. 1978. U.S. Department of Labor, Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1025.
- \*OSHA. 1993. Lead exposure in construction. Interim Final Rule. U.S. Department of Labor. Federal Register. 58 FR 26590. Occupational Safety and Health Administration. May 4, 1993.
- \*OSHA. 1995. Toxic and hazardous substances. Lead. U.S. Department of Labor. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1025.
- \*OSHA. 1996. Occupational safety and health standards for shipyard employment. Lead. U.S. Department of Labor. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1915.1025.

# LEAD 551 8. REFERENCES

- \*OSHA. 1998. Safety and health regulations for construction. Occupational health and environmental controls. Lead. U.S. Department of Labor. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1926.62.
- \*Oskarsson A, Jorhem L, Sundberg J, et al. 1992. Lead poisoning in cattle-transfer of lead to milk. Sci Total Environ 111:83-94.
- \*OTA. 1990. Neurotoxicology: Identifying and controlling poisons of the nervous system. Office of Technology Assessment, Washington, DC. OTA-BA-438.
- \*Otto D, Benignus V, Muller K, et al. 1982. Effects of low to moderate lead exposure on slow cortical potential in young children: Two year follow-up study. Neurobehav Toxicol Teratol 4:733-737.
- \*Otto D, Robinson G, Baumann S, et al. 1985. Five-year follow-up study of children with low-to-moderate lead absorption: Electrophysiological evaluation. Environ Res 38:168-186.
- \*Otto DA, Benignus VA, Muller KE, et al. 1981. Effects of age and body lead burden on CNS function in young children: I. Slow cortical potentials. Electroencephalogr Clin Neurophysiol 52:229-239.
- \*Ou L-T, Jing W, Thomas JE. 1995. Biological and chemical degradation of ionic ethyllead compounds in soil. Environ Toxicol Chem 14(4):545-551.
- \*Overmann SR. 1977. Behavioral effects of asymptomatic lead exposure during neonatal development in rats. Toxicol Appl Pharmacol 41:459-471.
- \*Overton J, Graham RC, Miller FJ. 1987. A model of the regional uptake of gaseous pollutants in the lung: II. The sensitivity of ozone uptake in laboratory animal lungs to anatomical and ventilatory parameters. Toxicol Appl Pharmacol 88:418-432.
- \*Overton J, Miller FJ. 1988. Absorption of inhaled reactive gases. In: Gardner DE, Crapo JD, Massaro EJ, eds. Toxicology of the lung. New York, NY: Raven Press, 477-507.
- \*Owen GM, Brozek J. 1966. Influence of age, sex, and nutrition on body composition during childhood and adolescence. In: Falkner F, ed. Human Development. Philadelphia, PA: Saunders, pp. 222-238.
- P'an AYS, Kennedy C. 1989. Lead distribution in rats repeatedly treated with low doses of lead acetate. Environ Res 48:238-247.
- Page RA, Cawse PA, Baker SJ. 1988. The effect of reducing petrol lead on airborne lead in Wales, U.K. Sci Total Environ 68:71-77.
- \*Pages N, Deloncle R. 1997. Inorganic lead, neurotransmitters, and neuropeptides. In: Yasui M, Strong MJ, Ota K, et al. eds. Mineral and metal neurotoxicology. Boca Raton, FL: CRC Press, 263-274.
- \*Paglia DE, Valentine WN, Dahigren JG. 1975. Effects of low-level lead exposure on pyrimidine 5'-nucleotidase and other erythrocyte enzymes: Possible role of pyrimidine 5'-nucleotidase in the pathogenesis of lead-induced anemia. J Clin Invest 56:1164-1169.

### LEAD 552 8. REFERENCES

- \*Paglia DE, Valentine WN, Fink K. 1977. Lead poisoning: Further observations on erythrocyte pyrimidine-nucleotidase deficiency and intracellular accumulation of pyrimidine nucleotides. J Clin Invest 60:1362-1366.
- \*Pagliuca A, Mufti GJ, Baldwin D, et al. 1990. Lead-poisoning: Clinical, biochemical, and hematological aspects of a recent outbreak. J Clin Path 43:277-281.
- Palmer KT, Kucera CL. 1980. Lead contamination of sycamore and soil from lead mining and smelting operations in eastern Missouri. Journal of Environmental Quality 9:106-111.
- \*Palminger Hallén I, Jonsson S, Karlsson MO, et al. 1996. Toxicokinetics of lead in lactating and nonlactating mice. Toxicol Appl Pharmacol 136:342-347.
- \*Palminger Hallén I, Jorhem L, Oskarsson A. 1995. Placental and lactational transfer of lead in rats: study on the lactational process and effects on offspring. Arch Toxicol 69:596-602.
- Pankaj B, Karnik AB, Venkatakrishna-Bhatt H. 1986. Influence of oral lead acetate on serum transaminases and alkaline phosphatase in albino rats. Proc Nati Acad Set India Sect B (Biol Sci) 56:1-4.
- \*Parkinson DK, Hodgson MJ, Bromet EJ, et al. 1987. Occupational lead exposure and blood pressure. Br J Ind Med 44:744-748.
- \*Parkinson DK, Ryan C, Bormet J, et al. 1986. A psychiatric epidemiologic study of occupational lead exposure. Am J Epidemiol 123:261-269.
- Parras F, Patier JL, Ezpeleta C. 1987. Lead contaminated heroin as a source of inorganic lead intoxication. N Engl J Med 316:755.
- \*Pasternak G, Becker CE, Lash A, et al. 1989. Cross-sectional neurotoxicology study of lead-exposed cohort. Clin Toxicol 27:37-51.
- \*Payton M, Riggs KM, Spiro A III, et al. 1998. Relations of bone and blood lead to cognitive function: The VA normative aging study. Neurotoxicology and Teratology 20(1):19-27.
- \*Perry HM, Erlanger MW. 1978. Pressor effects of chronically feeding cadmium and lead together. In: Hemphill DD, ed. Trace substances in environmental health. Vol. 12. Columbia, MO: University of Missouri-Columbia, 268-275.
- \*Perry HM Jr, Erlanger MW, Perry EF. 1988. Increase in the blood pressure of rats chronically fed low levels of lead. Environ Health Perspect 78:107-111.
- Petit TL, Alfano DP, LeBoutillier JC. 1983. Early lead exposure and the hippocampus: A review and recent advances. Neurotoxicology 4:79-94.
- \*Petit TL, LeBoutillier JC. 1979. Effects of lead exposure during development on neocortical dendritic and synaptic structure. Exp Neurol 64:482-492.
- \*Petrucci R, Leonardi A, Battistizzi G. 1982. The genetic polymorphism of human delta-aminolevulinate dehydratase in Italy. Hum Genet 60:289-290.

# LEAD 553 8. REFERENCES

- \*Phalen RF, Oldham MJ, Beaucage CB, et al. 1985. Postnatal enlargement of human tracheobronchial airways and implications for particle deposition. Anat Rec 212:368-380.
- Piasek M, Kostial K. 1987. Effect of exposure to lead on reproduction in male rats. Bull Environ Contam Toxicol 39:448-452.
- \*Pienta RJ, Poiley JA, Lebherz WB III. 1977. Morphological transformation of early-passage golden Syrian hamster embryo cells derived from cryopreserved primary cultures as a reliable *in vitro* bioassay for identifying diverse carcinogens. Int J Cancer 19:642-655.
- \*Pierzynski GM, Schwab AP. 1993. Bioavailability of zinc, cadmium, and lead in a metal contaminated alluvial soil. J Environ Qual 22:247-254.
- \*Pietsch J, Schmidt W, Sacher F, et al. 1995. Pesticides and other organic micro pollutants in the river Elbe. Fresenius J Anal Chem 353:75-82.
- \*Pinkerton LE, Biagini RE, Ward EM, et al. 1998. Immunologic findings among lead-exposed workers. American Journal of Industrial Medicine 33(4):400-408.
- Piomelli S, Graziano J. 1980. Laboratory diagnosis of lead poisoning. Pediatr Clin North Am 27:843-853.
- \*Piomelli S, Seaman C, Zullow D, et al. 1982. Threshold for lead damage to heme synthesis in urban children. Proc Natl Acad Sci. 7:3335-3339.
- \*Pirkle JL, Brody DJ, Gunter EW, et al. 1994. The decline in blood lead levels in the United States. The National Health and Nutrition Examination Surveys (NHANES). JAMA 272:284-291.
- \*Pirkle JL, Schwartz J, Landis JR, et al. 1985. The relationship between blood lead levels and blood pressure and its cardiovascular risk implications. Am J Epidemiol 121:246-258.
- \*Pocock SH, Ashby D, Smith MA. 1987. Lead exposure and children's intellectual performance. Int J Epidemiol 16:59-67.
- \*Pocock SJ, Ashby D, Smith MA. 1989. Lead exposure and children's intellectual performance: The Institute of Child Health/Southhampton Study. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- \*Pocock SJ, Shaper AG, Ashby D, et al. 1984. Blood lead concentration, blood pressure, and renal function. Br Med J 289:872-874.
- \*Pocock SJ. Shaper AG, Ashby D, et al. 1985. Blood lead and blood pressure in middle-aged men. In: Lekkas TD, ed. International Conference on Heavy Metals in the Environment, vol. 1, Athens, Greece, September. Edinburgh, United Kingdom: CEP Consultants, Ltd., 303-305.
- \*Pocock SJ, Shaper AG, Ashby D, et al. 1988. The relationship between blood lead, blood pressure, stroke, and heart attacks in middle-aged British men. Environ Health Perspect 78:23-30.
- \*Pocock SJ, Shaper AG, Walker M, et al. 1983. Effects of tap water lead, water hardness, alcohol, and cigarettes on blood lead concentrations. J Epidemiol Community Health 37:1-7.

- \*Pocock SJ, Smith M, Baghurst P. 1994. Environmental lead and children's intelligence: a systematic review of the epidemiological evidence. Br Med J 309:1189-1197.
- \*Poirier LA, Theiss JC, Arnold LJ, et al. 1984. Inhibition by magnesium and calcium acetates of lead subacetate and nickel acetate-induced lung tumors in strain A mice. Cancer Res 44:1520-1522.
- \*Pokora MJ, Richfield EK, Cory-Slechta DA. 1996. Preferential vulnerability of nucleus accumbens dopamine binding sites to low-level lead exposure: time course of effects and interactions with chronic dopamine agonist treatments. J Neurochem 67:1540-1550.
- \*Pollock CA, lbels LS. 1986. Lead intoxication in paint removal workers on the Sidney Harbour Bridge. Med J Aust 145:635-639.
- \*Porru S, Alessio L. 1996. The use of chelating agents in occupational lead poisoning. Occup Med 46(1):41-48.
- Pospischil E, Wolf C, Harmuth P, et al. 1988. Immunological parameters in occupational lead poisoning: Occupational health in the chemical industry, XXII. World Health Organization, International Commission on Occupational Health, 85-89.
- Poulos L, Qammaz S, Athanaselis S, et al. 1986. Statistically significant hematopoietic effects of low blood lead levels. Arch Environ Health 41:384-386.
- \*Pounds JG, Long GJ, Rosen JF. 1991. Cellular and molecular toxicity of lead in bone. Environ Health Perspect 91:17-32.
- \*Pounds JG, Marlar RJ, Allen JR. 1978. Metabolism of lead-210 in juvenile and adult Rhesus monkeys Macaca mulatta. Bull Environ Contam Toxicol 19:684-691.
- \*Prigge E, Greve J. 1977. [Effects of lead inhalation exposure alone and in combination with carbon monoxide in nonpregnant and pregnant rats and fetuses: II. Effects of -aminolevulinic acid dehydratase activity, hematocrit and body weight.] Zentraibl Baktt riot Parasitenkd Infektionsk-y Hyg Abt l(Orig Reihe B 165):294-304. (German)
- \*Proctor SP, Rotnitzky A, Sparrow D, et al. 1996. The relationship of blood lead and dietary calcium to blood pressure in the normative aging study. Int J Epidemiol 25(3):528-536.
- \*Pueschel SM, Kopito L, Schwachman H. 1972. Children with an increased lead burden: A screening and follow-up study. JAMA 222:462-466.
- \*Purchase NG, Fergusson JE. 1986. Lead in teeth: The influence of the tooth type and the sample within a tooth on lead levels. Sci Total Environ 52:239-250.
- Putnam RD. 1986. Review of toxicology of inorganic lead. Am Ind Hyg Assoc J 47:700-703.

# LEAD 555 8. REFERENCES

- \*Puzas JE, Sickel MJ, Felter ME. 1992. Osteoblasts and chondrocytes are important target cells for the toxic effects of lead. Neurotoxicology 13(4):783-788.
- \*Quarterman J, Morrison E, Morrison JN, et al. 1978. Dietary protein and lead retention. Environ Res 17:68-77.
- \*Quarterman J, Morrison JN. 1975. The effects of dietary calcium and phosphorus on the retention and excretion of lead in rats. Br J Nutr 34:351-362.
- \*Que Hee SS. 1994. Availability of elements in leaded/unleaded automobile exhausts, a leaded paint, a soil, and some mixtures. Arch Environ Contam Toxicol 27:145-153.
- \*Que Hee SS, Boyle JR. 1988. Simultaneous multi-elemental analysis of some environmental and biological samples by inductively coupled plasma atomic emission spectrometry. Anal Chem 60:1033-1042.
- \*Que Hee SS, MacDonald TJ, Bornschein RL. 1985a. Blood lead by furnace-Zeeman atomic absorption spectrophotometry. Micro Chem J 32:55-63.
- \*Que Hee SS, Peace B, Clark CS, et al. 1985b. Evolution of efficient methods to sample lead sources, such as house dust and hand dust, in the homes of children. Environ Res 38:77-95.
- Raab GM, Laxen DPH, Fulton M. 1987. Lead from dust and water as exposure sources for children. Environ Geochem Health 9:80-85.
- \*Rabe A, French JH, Sinha B, et al. 1985. Functional consequences of prenatal exposure to lead in immature rats. Neuroloxicology 6:43-54.
- \*Rabinowitz M, Bellinger D, Leviton A, et al. 1987. Pregnancy hypertension, blood pressure during labor, and blood lead levels. Hypertension 10:447-451.
- \*Rabinowitz M, Wetherill GW, Kopple JD. 1974. Studies of human lead metabolism by use of stable isotope tracers. Environ Health Perspect 7:145-153.
- \*Rabinowitz MB. 1995. Relating tooth and blood lead levels in children. Bull Environ Contam Toxicol 55:853-857.
- \*Rabinowitz MB, Koppel JD, Wetherill GW. 1980. Effect of food intake on fasting gastrointestinal lead absorption in humans. Am J Clin Nutr 33:1784-1788.
- \*Rabinowitz MB, Levilon A, Needleman H. 1986. Occurrence of elevated protoporphyrin levels in relation to lead burden in infants. Environ Res 39:253-257.
- \*Rabinowitz MB, Leviton A, Bellinger D. 1985a. Home refinishing, lead paint and infant blood lead levels. Am J Public Health 75:403-404.
- \*Rabinowitz MB, Leviton A, Bellinger D. 1989. Blood lead-tooth lead relationship among Boston children. Bull Environ Contam Toxicol 43:485-492.

\*Rabinowitz MB, Leviton A, Bellinger D. 1993. Relationships between serial blood lead levels and exfoliated tooth dentin lead levels: models of tooth lead kinetics. Calcif Tissue Int 53(5):338-41.

Rabinowitz MB, Leviton A, Needleman H. 1973. Lead metabolism in the normal human: Stable isotope studies. Science 182:725-727.

\*Rabinowitz MB, Leviton A, Needleman H. 1984. Variability of blood lead concentrations during infancy. Arch Environ Health 39:74-77.

\*Rabinowitz MB, Leviton A, Needleman H, et al. 1985b. Environmental correlates of infant blood lead levels in Boston. Environ Res 38:96-107.

Rabinowitz MB, Wetherill GW, Kopple JD. 1976. Kinetic analysis of lead metabolism in healthy humans. J Clin Invest 58:260-270.

\*Rabinowitz MB, Wetherill GW, Kopple JD. 1977. Magnitude of lead intake from respiration by normal man. J Lab Clin Med 90:238-248.

\*Raghavan SRV, Culver BD, Gonick HC. 1980. Erythrocyte lead-binding protein after occupational exposure: I. Relationship to lead toxicity. Environ Res 22:264-270.

Raghavan SRV, Culver BD. Gonick HC. 1981. Erythrocyte lead-binding protein after occupational exposure. II. Influence on lead inhibition of membrane Na+, K+ - adenosinetriphosphatase. J Toxicol Environ Health 7:561-568.

\*Raghavan SRV, Culver BD, Gonick HC. 1990. Erythrocyte lead-binding protein after occupation exposure: Relationship to lead toxicity. Environ Res 22:264-270.

\*Raghavan SRV, Gonick HC. 1977. Isolation of low-molecular-weight lead-binding protein from human erythrocytes. Proc Soc Exp Biol Med 155:164-167.

Ramel C. 1973. The effect of metal compounds on chromosome segregation. Mut Res 21:45-46.

\*Ramel C. Magnusson J. 1979. Chemical induction of nondisjunction in Drosophila. Environ Health Perspect 3:59-66.

Rao RV, Chowdhury AR, Chinov NJ. 1987. Deposition of lead in reproductive organs of male rats following, the administration of lead acetate. Curr Sci 56:281-282.

\*Rasile DA, Stewart PW, Burright RG, et al. 1995. Cross generation lead ingestion: Behavioral and physiological effects in mice. Brain Res Bull 36:473-482.

\*Reagan PL, Silbergeld EK. 1989. Establishing a health based standard for lead in residential soils. In: Hemphill and Cothern, eds. Trace substances in environmental health, Supplement to Volume 12 (1990) Environmental Geochemistry and Health.

\*Reddy KJ, Wang L, Gloss SP. 1995. Solubility and mobility of copper, zinc and lead in acidic environments. Plant and Soil 171:53-58.

# LEAD 557 8. REFERENCES

- \*Reed BE, Moore RE, Cline SR. 1995. Soil flushing of a sandy loam contaminated with Pb(ll), PbS04 (s), PbCo3 (3) or Pb-Naphthalene: Column results. J Soil Contamination 4(3):243-267.
- Regan CM. 1989. Lead impaired neurodevelopment: Mechanisms and threshold values in the rodent. Neurotoxicol Teratol 11:533-537.
- \*Regan CM. 1993. Neural cell adhesion molecules, neuronal development and lead toxicity. Neurotoxicology 14:69-74.
- \*Reigart JR, Graher CD. 1976. Evaluation of the humoral immune response of children with low level lead exposure. Bull Environ Contam Toxicol 16:112-117.
- \*Reiter LW, Anderson GE, Laskey JW, et al. 1975. Developmental and behavioral changes in the rat during chronic exposure to lead. Environ Health Perspect 12:119-123.
- \*Reuhl KR, Rice DC, Gilbert SG, et al. 1989. Effects of chronic developmental lead exposure on monkey neuroanatomy: Visual system. Toxicol Appl Pharmacol 99:501-509.
- \*Rice DC. 1984. Behavioral deficit (delayed matching to sample) in monkeys exposed from birth to low levels of lead. Toxicol Appl Pharmacol 75:337-345.
- \*Rice DC. 1985a. Behavioral toxicity in monkeys exposed to low levels of lead from birth. Toxicologist 5:23.
- \*Rice DC. 1985b. Chronic low-lead exposure from birth produces deficits in discrimination reversal in monkeys. Toxicol Appl Pharmacol 77:201-210.
- \*Rice DC. 1988. Chronic low-level lead exposure in monkeys does not affect simple reaction time. Neurotoxicology 9:105-107.
- \*Rice DC. 1992. Lead exposure during different developmental periods produces different effects on FI performance in monkeys tested as juveniles and adults. Neurotoxicology 13:757-770.
- \*Rice DC. 1996. Effect of long-term lead exposure on hematology, blood biochemistry, and growth curves in monkeys. Neurotoxicology 18:221-236.
- \*Rice DC. 1997. Effects of lifetime lead exposure in monkeys on detection of pure tones. Fundam Appl Toxicol 36(2):112-118.
- \*Rice DC, Gilbert SG. 1985. Low-level lead exposure from birth produces behavioral toxicity (DRL) in monkeys. Toxicol Appl Pharmacol 80:421-426.
- \*Rice DC, Gilbert SG. 1995. Effects of developmental methylmercury or lifetime lead exposure on vibration sensitivity function in monkeys. Toxicol Appl Pharmacol 134:161-169.
- \*Rice DC, Gilbert SG, Willes RF. 1979. Neonatal low-level lead exposure in monkeys: Locomotor activity, schedule-controlled behavior, and the effects of amphetamine. Toxicol Appl Pharmacol 51:503-513.

# LEAD 558 8. REFERENCES

- \*Rice DC, Karpinski KF. 1988. Lifetime low-level lead exposure produces deficits in delayed alternation in adult monkeys. Neurotoxicol Teratol 10:207-214.
- \*Rice DC, Willes RF. 1979. Neonatal low-level lead exposure in monkeys (Macaca fascicularis): Effect on two choice non-spatial form discrimination. J Environ Pathol Toxicol 2:1195-1203.
- Richet G, Albahary C. Morel-Maroger L. et al. 1966. [Renal changes in 23 cases of occupational lead poisoning.] Bull Mem Soc Med Hop 117:441-466. (French)
- Rius PA, Govoni S, Bergamaschi S, et al. 1988. Mechanisms of the effect of lead on brain neurotransmission: A calcium mediated action. Sci Total Environ 71:441-448.
- \*Roberge RJ, Martin TG, Dean BS, et al. 1994. Ceramic lead glaze ingestions in nursing home residents with dementia. Am J Emerg Med 12:77-81.
- \*Roberts TM, Hutchinson TC, Paciga J. 1974. Lead contamination around secondary smelters: Estimation of dispersal and accumulation by humans. Science 186:1120-1123.
- \*Robinson GS, Baumann S, Kleinbaum D, et al. 1985. Effects of low to moderate lead exposure on brainstem auditory evoked potentials in children: Environmental health document 3. Copenhagen, Denmark: World Health Organization Regional Office for Europe, 177-182.
- \*Robinson GS, Keith RW, Bornschein RL, et al. 1987. Effects of environmental lead exposure on the developing auditory system as indexed by the brainstem auditory evoked potential and pure tone hearing evaluations in young children. In: Lindberg SE, Hutchinson TC. eds. International Conference on Heavy Metals in the Environment, Vol. 1, New Orleans, LA. September. Edinburgh, UK: CEP Consultants, Ltd., 223-225.
- \*Robinson TR. 1974. Delta-aminolevulinic acid and lead in urine of lead antiknock workers. Arch Environ Health 28:133-138.
- \*Robison SH. Cantoni O, Costa M. 1984. Analysis of metal-induced DNA lesions and DNA-repair replication in mammalian cells. Mut Res 131:173-181.
- \*Rodamilans M, Osaba MJ, To-Figueras J, et al. 1988. Lead toxicity on endocrine testicular function in an occupationally exposed population. Hum Toxicol 7:115-128.
- \*Rodrigues ALS, Rocha JBT, Pereira ME, et al. 1996. Aminolevulinic acid dehydratase activity in weanling and adult rats exposed to lead acetate. Bull Environ Contam Toxicol 57:47-53.
- \*Rodrigues ALS, Rubin MA, Souza DO, et al. 1993. Lead exposure and latent learning ability of adult female rats. Behav Neural Biol 60:274-279.
- \*Roels H, Lauwerys R, Konings J, et al. 1994. Renal function and hyperfiltration capacity in lead smelter workers with high bone lead. Occup Environ Med 51:505-512.
- \*Roels HA, Balis-Jacques MN, Buchet J-P, et al. 1979. The influence of sex and of chelation therapy on erythrocyte protoporphyrin and urinary delta-aminolevulinic acid in lead-exposed workers. J Occup Med 21:527-539.

- \*Roels HA, Buchet J-P, Lauwerys R, et al. 1976. Impact of air pollution by lead on the hemebiosynthetic pathway in school-age children. Arch Environ Health 31:310-316.
- \*Roels HA, Buchet J-P, Lauwerys RR, et al. 1980. Exposure to lead by the oral and the pulmonary routes of children living in the vicinity of a primary lead smelter. Environ Res 22:81-94.
- Roels HA, Hubermont G, Buchet J-P, et al. 1978. Placental transfer of lead, mercury, cadmium, and carbon monoxide in women: III. Factors influencing the accumulation of heavy metals in the placenta and the relationship between metal concentration in the placenta and in maternal and cord blood. Environ Res 16:236-247.
- \*Roels HA, Lauwerys R. 1987. Evaluation of dose-effect and dose-response relationships for lead exposure in different Belgian population groups (fetus, child, adult men and women). Trace Elements in Medicine 4:80-87.
- Roels HA, Lauwerys R, Buchet J-P, et al. 1977. Effects of lead on lactating rats and their sucklings. Toxicology 8:107-113.
- Roels HA, Lauwerys RR, Buchet J-P. 1990. Urinary kallikrein activity in workers exposed to cadmium, lead, or mercury vapor. Br J Ind Med 47:331-337.
- \*Roels HA, Lauwerys RR, Buchet J-P, et al. 1975. Response of free erythrocyte porphyrin and urinary-delta-aminolevulinic acid in men and women moderately exposed to lead. Int Arch Arbeitsmed 34:97-108.
- \*Ronis MJ, Badger TM, Shema SJ, et al. 1998a. Effects on pubertal growth and reproduction in rats exposed to lead perinatally or continuously throughout development. J Toxicol Environ Health 53(4):327-341.
- \*Ronis MJJ, Badger TM, Shema SJ, et al. 1996. Reproductive toxicity and growth effects in rats exposed to lead at different periods during development. Toxicol Appl Pharmacol 136:361-371.
- \*Ronis MJJ, Badger TM, Shema SJ, et al. 1998c. Endocrine mechanisms underlying the growth effects of developmental lead exposure in the rat. J Toxicol Environ Health 54:101-120.
- \*Ronis MJJ, Gandy J, Badger T. 1998b. Endocrine mechanisms underlying reproductive toxicity in the developing rat chronically exposed to dietary lead. J Toxicol Environ Health 54:77-99.
- \*Rosen I, Wildt K, Guilberg B, et al. 1983. Neurophysiological effects of lead exposure. Scand J Work Environ Health 9:431-441.
- Rosen JF. 1985. Metabolic and cellular effects of lead: A guide to low-level lead toxicity in children. In: Mahaffey KR, ed. Dietary and environmental lead. Human health effects: Chapter 6. Amsterdam, The Netherlands: Elsevier Science Publishers, 157-185.
- Rosen JF. 1989. Metabolic abnormalities in lead toxic children: Public health implications. Bull N Y Acad Med 65:1067-1084.
- \*Rosen JF, Chesney RW. 1983. Circulating calcitriol concentration in health and disease. J Pediatr 103:1-7.

# LEAD 560 8. REFERENCES

- \*Rosen JF, Chesney RW, Hamstra AJ. el al. 1980. Reduction in 1,25-dihydroxyvitamin D in children with increased lead absorption. N Engl J Med 302:1128-1131.
- Rosen JF, Chesney RW, Hamstra AJ, et al. 1981. Reduction in 1,25-dihydroxyvitamin D in children with increased lead absorption. In: Brown SS, Davis DS, eds. Organ-directed toxicity: Chemical indices and mechanisms. New York, NY: Pergamon Press, 91-95.
- \*Rosen JF, Markowitz ME, Jenks ST, et al. 1987. L-X-ray fluorescence (XRF): A rapid assessment of cortical bone lead (Pb) in Pb-toxic children. Pedia Res 21:287A.
- \*Rosen JF, Zarate-Salvador C, Trinidad EE. 1974. Plasma lead levels in normal and lead-intoxicated children. J Pediatr 84:45-48.
- \*Rosenkranz HS, Poirier LA. 1979. Evaluation of the mutagenicity and DNA-modifying activity of carcinogens and noncarcinogens in microbial systems. J Natl Cancer Inst 62:873-892.
- \*Rothenberg SJ, Cansino S, Sepkoski C, et al. 1995. Prenatal and perinatal lead exposures alter acoustic cry parameters of neonate. Neurotoxicol Teratol 17(2):151-160.
- \*Rothenberg SJ, Manalo M, Jiang J, et al. 1999a. Maternal blood lead level and blood pressure during pregnancy in South Central Los Angeles. Archives of Environmental Health, in press.
- \*Rothenberg SJ, Manalo M, Jiang J, et al. 1999b. Maternal blood lead level during pregnancy in South Central Los Angeles. Archives of Environmental Health 54(3):1-31.
- \*Rothenberg SJ, Poblano A, Garza-Morales S. 1994. Prenatal and perinatal low level lead exposure alters brainstem auditory evoked responses in infants. Neurotoxicology 15:695-700.
- \*Rothenberg SJ, Schnaas L, Cansino-Ortiz S, et al. 1989a. Neurobehavioral deficits after low level lead exposure in neonates: The Mexico City pilot study. Neurotoxicol Teratol 11:85-93.
- Rothenberg SJ, Schnaas L, NeriMendez CZ. 1989b. Effects of lead on neurobehavioral development in the first 30 days of life. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers.
- Routh DK, Mushak P, Boone L. 1979. A new syndrome of elevated blood lead and microcephaly. J Pediatr Psychol 4:67-76.
- \*Roy MM, Gordon CL, Beaumont LF, et al. 1997. Further experience with bone lead content measurements in residents of southern Ontario. Appl Radiat Isot 48:391-396.
- \*RTECS. 1996. Registry of Toxic Effects of Chemical Substances. U.S. Department of Health and Human Services.
- \*Ruby MV, Davis A, Kempton JH, et al. 1992. Lead bioavailability: Dissolution kinetics under simulated gastric conditions. Environ Sci Technol 26:1242-1248.
- \*Ruby MV, Davis A, Nicholson A. 1994. In situ formation of lead phosphates in soils as a method to immobilize lead. Environ Sci Technol 28:646-654.

# LEAD 561 8. REFERENCES

- \*Rudolph L, Sharp DS, Samuels S, et al. 1990. Environmental and biological monitoring for lead exposure in California workplaces. Am J Public Health 80:921-934.
- \*Ruff HA, Markowitz ME, Bijur PE, et al. 1996. Relationships among blood lead levels, iron deficiency, and cognitive development in two-year-old children. Environ Health Perspect 104(2):180-185.
- \*Rummo JH. 1974. Intellectual and behavioral effects of lead poisoning in children. Chapel Hill, NC: University of North Carolina. University Microfilms, Ann Arbor MI, Publication No. 74-26-930.
- \*Rummo JH, Routh DK, Rummo NJ, et al. 1979. Behavioral and neurological effects of symptomatic and asymptomatic lead exposure in children. Arch Environ Health 34:120-125.
- \*Ryan CM, Morrow L, Parkinson D, et al. 1987. Low level lead exposure and neuropsychological functioning in blue collar males. Int J Neurosci 36:29-39.
- \*Ryu JE, Ziegler EE, Nelson SE, et al. 1983. Dietary intake of lead and blood lead concentration in early infancy. Am J Dis Child 137:986-891.
- Sachs HK. 1978. Intercurrent infection in lead poisoning. Am J Dis Chil 132:315-316.
- \*Sachs HK, Moel DI. 1989. Height and weight following lead poisoning in childhood. American Journal of Diseases and Children 143:820-822.
- Sadasivan S, Negi BS, Mishra UC. 1987. Atmospheric lead levels in some cities in India. Indian J Environ Health 29:280-286.
- \*Saenger P, Markowitz ME, Rosen JF. 1984. Depressed excretion of 6β-hydroxycortisol in lead-toxic children. J Clin Endocrinol Metab 58:363-367.
- \*Sakai T, Morita Y. 1996. Delta-aminolevulinic acid in plasma or whole blood as a sensitive indicator of lead effects, and its relation to the other heme-related parameters. Int Arch Occup Environ Health 68(2):126-132.
- \*Sallmen M, Anttila A, Lindbohm M-L, et al. 1995. Time to pregnancy among women occupationally exposed to lead. J Occup Environ Med 37:931-934.
- \*Samanta G, Chakraborti D. 1996. Flow injection hydride generation atomic absorption spectrometry (FI-HG-AAS) and spectrophotometric methods for determination of lead in environmental samples. Environmental Technology 17(12):1327-1337.
- \*Sarto F, Stella M, Acqua A. 1978. [Cytogenic studies in 20 workers occupationally exposed to lead.] Med Lav 69:172-180. (Italian)
- \*Sata F, Araki S, Tanigawa T, et al. 1998. Changes in T cell subpopulations in lead workers. Environ Res 76(1):61-64.
- \*Satija NK, Vij AG. 1995. Preventive action of zinc against lead toxicity. Ind J Physiol Pharmacol 39:377-382.

### LEAD 562 8. REFERENCES

- \*Satzger RD, Clow CS, Bonnin E, et al. 1982. Determination of background levels of lead and cadmium in raw agricultural crops by using differential pulse anodic stripping voltammetry. J Assoc Off Anal Chem 65:987-991.
- \*Satzl Ter RD, Clow CS, Bonnin E, et al. 1982. Determination of background levels of lead and cadmium in raw agricultural crops by using differential pulse anodic stripping voltammetry. J Assoc Off Anal Chem 65:987-991.
- \*Sauk JJ, Smith T, Silbergeld EK, et al. 1992. Lead inhibits secretion of osteonectin/sparc without significantly altering collagen or hsp47 production in osteoblast-like ros 17/2.8 cells. Toxicol Appl Pharmacol 116(2):240-247.
- \*Sax NI. 1984. Dangerous properties of industrial materials. 6th ed. New York, NY: Van Nostrand Reinhold Company, 2641.
- \*Sax NI, Lewis RJ. 1987. Hawley's condensed chemical dictonary. New York, NY: Van Nostrand Reinhold Company.
- Saxena DK, Hussain T, Lal B, et al. 1986. Lead induced testicular dysfunction in weaned rats. Ind Health 24:105-109.
- \*Schalscha EB, Morales M, Pratt P. 1987. Lead and molybdenum in soils and forage near an atmospheric source. Journal of Environ Quality 16:313-315.
- \*Schepers GWH. 1964. Tetraethyl and tetramethyl lead. Arch Environ Health 8:277-295.
- Schlenker T. 1989. The effects of lead in Milwaukee's water. Wis Med J 88:13-15.
- \*Schmid E, Bauchinger M, Pietruck S, et al. 1972. [Cytogenic action of lead in human peripheral lymphocytes *in vitro* and *in vivo*.] Mut Res 16:401-406. (German)
- \*Schmitt CJ, Brumbaugh WG. 1990. National contaminant biomonitoring program: concentration of arsenic, cadmium, cooper, lead, mercury, selenium, and zinc in U.S. freshwater fish, 1976-1984. Arch Environ Contam Toxicol 19:731-747.
- \*Schmitt MDC, Trippler DL, Wachtler JN, et al. 1988. Soil lead concentrations in residential Minnesota as measured by ICP AES. Water Air Soil Pollut 39:157-168.
- \*Schneitzer L, Osborn HH, Bierman A, et al. 1990. Lead poisoning in adults from renovation of an older home. Ann Emerg Med 19:415-420.
- \*Schroeder SR, Hawk B. 1987. Psycho-social factors, lead exposure and IQ. Monogr Am Assoc Ment Defic S:97-137.
- \*Schroeder SR, Hawk B, Otto DA, et al. 1985. Separating the effects of lead and social factors on IQ. In: Bornschein RL, Rabinowitz MB, eds. The Second International Conference on Prospective Studies of Lead. Cincinnati. OH, April 1984. Environ Res 38:144-154.

### LEAD 563 8. REFERENCES

- \*Schuhmacher M, Hernandez M, Domingo JL, et al. 1996. A longitudinal study of lead mobilization during pregnancy: concentration in maternal and umbilical cord blood. Trace Elements and Electrolytes 13:177-181.
- \*Schuhmacher M, Paternain JL, Domingo JL, et al. 1997. An assessment of some biomonitors indicative of occupational exposure to lead. Trace Elements and Electrolytes 14(3):145-149.
- Schutz A, Attewell R, Skerfving S. 1989. Decreasing blood lead in Swedish children. 1978-1988, Arch Environ Health 44:391-394.
- Schutz A, Skerfving S, Ranstam J. et al. 1987. Kinetics of lead in blood after the end of occupational exposure. Scand J Work Environ Health 13:221-231.
- \*Schwanitz G, Gebhart E, Rott HD, et al. 1975. [Chromosome investigations in subjects with occupational lead exposure.] Deutsch Med Wschr 100:1007-1011. (German)
- \*Schwanitz G, Lenhert G. Gebhart E. 1970. [Chromosome damage after occupational exposure to lead.] Deutsch Med Wschr 95:1630-1641. (German)
- \*Schwartz BS, Lee BK, Stewart W, et al. 1997. Delta-aminolevulinic acid dehydratase genotype modifies four hour urinary lead excretion after oral administration of dimercaptosuccinic acid. Occup Environ Med 54(4):241-246.
- \*Schwartz J. 1988. The relationship between blood lead and blood pressure in the NHANES II survey. Environ Health Perspect 78:15-22.
- \*Schwartz J. 1991. Lead, blood pressure, and cardiovascular disease in men and women. Environ Health Perspect 91:71-75.
- \*Schwartz J. 1992. Lead, blood pressure, and cardiovascular disease. In: Needleman HL, ed. Human lead exposure. Boca Raton, FL: CRC Press, 223-231.
- \*Schwartz J. 1994. Low-level lead exposure and children's IQ: A meta-analysis and search for a threshold. Environ Res 65:42-55.
- \*Schwartz J. 1995. Lead, blood pressure, and cardiovascular disease in men. Arch Environ Health 50:31-37.
- \*Schwartz J, Angle C, Pitchcr H. 1986. Relationship between childhood blood lead levels and stature. Pediatrics 77:281-288.
- \*Schwartz J, Landrigan PJ, Baker EL Jr. 1990. Lead-induced anemia: Dose-response relationships and evidence for a threshold. Am J Public Health 80:165-168.
- \*Schwartz J, Landrigan PJ, Feldman RG, et al. 1988. Threshold effect in lead-induced peripheral neuropathy. J Pediatr 112:12-17.
- \*Schwartz J, Otto D. 1991. Lead and minor hear impairment. Arch Environ Health 46:300-305.

# LEAD 564 8. REFERENCES

- \*Schwartz J, Otto DA. 1987. Blood lead, hearing thresholds, and neurobehavioral development in children and youth. Arch Environ Health 42:153-160.
- \*Scott DR, Hemphill DC, Hoiboke LE, et al. 1976. Atomic absorption and optical emission analysis of NASN atmospheric particulate samples for lead. Environ Sci Technol 9:877-880.
- \*Secchi GC, Erba L, Cambiaghi G. 1974. Delta-aminolevulinic acid dehydrase, activity of erythrocytes and liver tissue in man: Relationship to lead exposure. Arch Environ Health 28:130-132.
- \*Sedman RM. 1989. The development of applied action levels for soil contact: A scenario for the exposure of humans to soil in a residential setting. Environ Health Perspect 79:291-313.
- \*Selander S, Cramer K. 1970. Interrelationships between lead in blood, lead in urine, and ALA in urine during lead work. Br J Ind Med 27:28-39.
- \*Selevan SG, Landrigan PJ, Stern FB, et al. 1985. Mortality of lead smelter workers. Am J Epidemiol 122:673-683.
- \*Seppalainen AM, Hernberg S, Vesanto R, et al. 1983. Early neurotoxic effects of occupational lead exposure: A prospective study. Neurotoxicology 4:181-192.
- \*Setchell BP, Waites GMH. 1975. The blood testis barrier. In: Creep RO, Astwood EB, eds., Geiger SR, executive ed. Handbook of Physiology: Endocrinology V (Chapter 6). Washington DC: American Physiological Society.
- \*Seto DSY, Freeman JM. 1964. Lead neuropathy in childhood. Am J Dis Child 107:337-342.

Shafiq-ur-Rehman. 1991. Effects of lead on the behavioral complex stereotypes and regional brain dopamine levels in rats. Arch Environ Contam Toxicol 20:527-530.

Sharp DS, Becker CE, Smith AH. 1987. Chronic low-level lead exposure: Its role in the pathogenesis of hypertension. Med Toxicol 2:210-232.

\*Shea EE. 1996. Lead regulation handbook. Rockville, MD: Government Institutes, 240 pages.

Sherlock JC. 1987. Lead in food and the diet. Environmental Geochemistry and Health 9:43-47.

\*Sherlock JC, Ashby D, Delves HT, et al. 1984. Reduction in exposure to lead from drinking water and its effect on blood lead concentrations. Human Toxicol 3:383-392.

Sherlock JC, Quinn MJ. 1986. Relationship between blood and lead concentrations and dietary lead intake in infants: The Glasgow Duplicate Diet Study 1979-1980. Food Addit Contam 3:167-176.

\*Sherlock JC, Smart G, Forbes GI, et al. 1982. Assessment of lead intakes and dose-response for a population in Ayr exposed to a plumbosolvent water supply. Human Toxicol 1:115-122.

Shucard JL, Shucard DW, Patterson R, et al. 1988. Prenatal lead exposure and its potential significance for developmental disabilities: A preliminary study of umbilical cord blood lead levels. Neurotoxicology 9:317-326.

# LEAD 565 8. REFERENCES

- \*Shukla R. Bornschein RL, Dietrich KN, et al. 1987. Effects of fetal and early postnatal lead exposure on child's growth in stature--the Cincinnati lead study. In: Lindberg SE, Hutchinson TC, eds. International Conference on Heavy Metals in the Environment, Vol. 1. New Orleans, LA, September. Edinburgh, UK: CEP Consultants, Ltd., 210-212.
- \*Shukla R, Bornschein RL, Dietrich KN, et al. 1989. Fetal and infant lead exposure: Effects on growth in stature. Pediatrics 84:604-612.
- \*Shukla R, Dietrich KN, Bornschein RL, et al. 1991. Lead exposure and growth in the early preschool child: A follow-up report from the Cincinnati lead study. Pediatrics 88:886-892.
- \*Siegel M, Forsyth B, Siegel L, et al. 1989. The effect of lead on thyroid function in children. Environ Res 49:190-196.
- \*Sierra EM, Rowles TK, Martin J, et al. 1989. Low level lead neurotoxicity in a pregnant guinea pigs model: Neuroglial enzyme activities and brain trace metal concentrations. Toxicology 59:81-96.
- \*Sierra EM, Tiffany-Castiglioni E. 1992. Effects of low-level lead exposure on hypothalamic hormones and serum progesterone levels in pregnant guinea pigs. Toxicology 72:89-97.
- \*Silbergeld, EK. 1986. Maternally mediated exposure of the fetus: *In utero* exposure to lead and other toxins. Neurotoxicology 7:557-568.
- \*Silbergeld EK. 1991. Lead in bone: Implications for toxicology during pregnancy and lactation. Environ Health Perspect 91:63-70.
- Silbergeld EK, Hruska RE, Bradley D, et al. 1982. Neurotoxic aspects of porphyrinopathies: Lead and succinylacetone. Environ Res 29:459-471.
- \*Silbergeld EK, Schwartz J, Mahaffey K. 1988. Lead and osteoporosis: Mobilization of lead from bone in postmenopausal women. Environ Res 47:79-94.
- \*Silva PA, Hughes P, Williams S, et al. 1988. Blood lead, intelligence, reading attainment, and behavior in eleven year old children in Dunedin, New Zealand. J Child Psychol Psychiatry 29:43-52.
- \*Silver W, Rodriguez-Torres R. 1968. Electrocardiographic studies in children with lead poisoning. Pediatrics 41:1124-1127.
- \*Simmon VF. 1979a. *In vitro* assays for recombinogenic activity of chemical carcinogens and related compounds with *Saccharomyces cerevisiae* D3. J Nat Cancer Inst 62:901-909.
- \*Simmon VF. 1979b. *In vitro* mutagenicity assays of chemical carcinogens and related compounds with *Salmonella typhimurium*. J Nat Cancer Inst 62:893-899.
- \*Simmon VF, Rosenkranz HS, Zeiger E. et al. 1979. Mutagenic activity of chemical carcinogens and related compounds in the intraperitoneal host- mediated assay. J Nat Cancer Inst 62:911-918.
- \*Simmonds PL, Luckhurst CL, Woods JS. 1995. Quantitative evaluation of heme biosynthetic pathway parameters as biomarkers of low-level lead exposure in rats. J Toxicol Environ Health 44:351-367.

# LEAD 566 8. REFERENCES

- \*Simons TJ. 1986. Passive transport and binding of lead by human red blood cells. J Physiol 378:267-286.
- \*Singh AK. 1993. Effects of chronic low-level lead exposure on mRNA expression, ADP-ribosylation and photoaffinity labelling with [-32P]guanine triphosphate -y -azidoanilide of GTP-binding proteins in neurons isolated from the brain of neonatal and adult rats. Biochem Pharmacol 45:1107-1114.
- \*Singh AK, Ashraf M. 1989. Neurotoxicity in rats sub-chronically exposed to low levels of lead. Vet Hum Toxicol 31:21-25.
- \*Singh B, Dhawan D, Nehru B, et al. 1994. Impact of lead pollution on the status of other trace metals in blood and alterations in hepatic functions. Biol Trace Elem Res 40:21-29.
- Singh SM, Sivalingam PM. 1982. *In vitro* study on the interactive effects of heavy metals on catalase activity of Sarotherodon mossambicus. J Fish Biol 20:683-688.
- \*Sirover, MA, Loeb LA. 1976. Infidelity of DNA synthesis *in vitro*: Screening for potential metal mutagens or carcinogens. Science 194:1434-1436.
- \*Six KM, Gover RA. 1972. The influence of iron deficiency on tissue content and toxicity of ingested lead in the rat. J Lab Clin Med 79:128-136.
- \*Six KM, Goyer RA. 1970. Experimental enhancement of lead toxicity by low dietary calcium. J Lab Clin Med 76:933-942.
- \*Skerfving S, Nilsson U, Schutz A, et al. 1993. Biological monitoring of inorganic lead. Scand J Work Environ Health 19(1):59-64.
- \*Skoczynska A, Smolik R, Jelen M. 1993. Lipid abnormalities in rats given small doses of lead. Arch Toxicol 67:200-204.
- \*Slomianka L, Rungby J. West MJ, et al. 1989. Dose-dependent bimodal effect of low-level lead exposure on the developing hippocampal region of the rat: A volumetric study. Neurotoxicology 10:177-190.
- Smart GA, Pickford CJ, Sherlock JC. 1990. Lead in alcoholic beverages: A second survey. Food Addit Contam 7:93-99.
- \*Smith CM, Deluca HF, Tanaka Y, et al. 1978. Stimulation of lead absorption by vitamin D administration. J Nutr 108:843-847.
- \*Smith CM, Deluca HF, Tanaka Y, et al. 1981. Effect of lead ingestion on functions of vitamin D and its metabolites. J Nutr 111:1321-1329.
- \*Smith CM, Wang X, Hu H, et al. 1995. A polymorphism in the delta-aminolevulinic acid dehydratase gene may modify the pharmacokinetics and toxicity of lead. Environ Health Perspect 103:248-253.
- \*Smith FL II, Rathmell TK, Marcil GE. 1938. The early diagnosis of acute and latent plumbism. Am J Clin Pathol 8:471-508.

- \*Smith et al. 1996. Use of endogenous, stable lead isotopes to determine release of lead from the skeleton. Environ Health Perspect 104(1):60-66.
- \*Smith GR. 1995. Lead. U.S. Department of the Interior U.S. Geological Survey.
- \*Smith GR. 1996. Lead. Recycling--Metals, Minerals Information Team, U.S. Department of the Interior, U.S. Geological Survey. Lead Statistics and Information, Minerals Yearbook, Recycling Metals. <a href="http://minerals.er.usgs.gov/minerals/pubs/commodity/lead/">http://minerals.er.usgs.gov/minerals/pubs/commodity/lead/</a>
- \*Smith GR. 1998. Lead: lead statistics and information, mineral commodity summary, 1998. U.S. Department of the Interior U.S. Geological Survey. <a href="http://minerals.er.usgs.gov/minerals/pubs/commodity/lead/">http://minerals.er.usgs.gov/minerals/pubs/commodity/lead/</a>
- \*Smith M, Delves T, Tansdown R, et al. 1983. The effects of lead exposure on urban children: The Institute of Child Health/Southhampton study. Dev Med Child Neurol 25(suppl 47).
- \*Snowdon CT. 1973. Learning deficits in lead-injected rats. Toxicol Biochemistry and Behav 1:599-603.

Sobel AE, Yuska H, Peters DD, et al. 1940. The biochemical behavior of lead: I. Influence of calcium, phosphorus, and vitamin-D on lead in blood and bone. J Biol Chem 188:239-265.

Sokol RZ. 1987. Hormonal effects of lead acetate in the male rat: Mechanism of action. Biol Reprod 37:1135-1138.

Sokol RZ. 1989. Reversibility of the toxic effect of lead on the male reproductive axis. Reproductive Toxicology 3:175-180.

\*Solliway BM, Schaffer A, Pratt H, et al. 1996. Effects of exposure to lead on selected biochemical and hematological variables. Pharmacol Toxicol 78:18-22.

\*Somashekaraiah BV, Venkaiah B, Prasad ARK. 1990. Biochemical diagnosis of occupational exposure to lead toxicity. Bull Environ Contamin Toxicol 44:268-275.

Somervaille JL, Chettle DR, Scott, MC, et al. 1987. X-ray fluorescence of lead *in vivo*: Simultaneous measurement of a cortical and a trabecular bone in a pilot study. In: Ellis, Yasumuru, Morgan, eds. *In vivo* body composition studies. New York, NY: Brookhaven National Laboratory, The Institute of Physical Sciences in Medicine.

\*Sorrell M. Rosen JF, Roginsky M. 1977. Interactions of lead, calcium, vitamin D, and nutrition in lead burdened children. Arch Environ Health 32:160-164.

Sourgens H, Klages K, Bertram HP, et al. 1987. Gonadal and thyroid function after experimental lead exposure. Trace Elements in Medicine 4:8-12.

\*Spivey GH, Baloh RW, Brown CP, et al. 1980. Subclinical effects of chronic increased lead absorption--a prospective study: III. Neurologic findings at follow-up examination. J Occup Med 22:607-612.

# LEAD 568 8. REFERENCES

- \*Srivastava L, Tandon SK. 1984. Effects of zinc on lead-induced changes in brain lysosomal enzymes in the chick embryo. Toxicol Lett 20:111-114.
- Sroczynski J, Urbanska-Bonenberg L, Twardowska-Saucha K, et al. 1987. [Biochemical investigations evaluating the health condition of workers chronically exposed to lead.] Med Pr 38:429-436. (Russian)
- \*Staessen J, Sartor F, Roels H, et al. 1991. The association between blood pressure, calcium and other divalent cations: A population study. Journal of Human Hypertension 5:485-494.
- \*Staessen J, Yeoman WB, Fletcher AE, et al. 1990. Blood lead concentration, renal function, and blood pressure in London civil servants. Br J Ind Med 47:442-447.
- \*Staessen JA, Bulpitt CJ, Fagard R, et al. 1994b. Hypertension caused by low-level lead exposure: Myth or fact? J Cardiovasc Risk 1:87-97.
- \*Staessen JA, Lauwerys RR, Buchet JP, et al. 1992. Impairment of renal function with increasing blood lead concentrations in the general population. the cadmibel study group. N Engl J Med 327(3):151-6.
- \*Staessen JA, Lauwerys RR, Bulpitt CJ, et al. 1994a. Is a positive association between lead exposure and blood pressure supported by animal experiments? Curr Opin Nephrol Hypertens 3(3):257-63.
- \*Staessen JA, Roels H, Fagard R. 1996. Lead exposure and conventional and ambulatory blood pressure. JAMA 275:1563-1570.
- \*Stanek K, Manton W, Angle C, et al. 1998. Lead consumption of 18- to 36-month-old children as determined from duplicate diet collections: nutrient intakes, blood lead levels, and effects on growth. Journal of the American Dietetic Association 98(2):155-158.
- \*Stark AD, Quah RF, Meigs JW, et al. 1982. The relationship of environmental lead to blood-lead levels in children. Environ Res 27:372-383.
- \*Stauber JL, Florence TM, Gulson BL, et al. 1994. Percutaneous absorption of inorganic lead compounds. Sci Total Environ145:55-70.
- \*Steenhout A, Pourtois M. 1981. Lead accumulation in teeth as a function of age with different exposures. Br J Ind Med 38:297-303.
- \*Steenhout A, Pourtois M. 1987. Age-related lead kinetics in children. In: Trace elements in human health and disease, Second Nordic symposium, Odense, Denmark, August 17-21, 1987. Copenhagen, Denmark: World Health Organization, 144-147.
- \*Steenland K, Selevan S, Landrigan P. 1992. The mortality of lead smelter workers: An update. Am J Public Health 82:1641-1644.
- \*Stern AH. 1996. Derivation of a target concentration of Pb in soil based on elevation of adult blood pressure. Risk Analysis 16:201-210.
- \*Sternowsky HJ, Wessolowski R. 1985. Lead and cadmium in breast milk. Arch Toxicol 57:41-45.

# LEAD 569 8. REFERENCES

- \*Stokes L, Letz R, Gerr F, et al. 1998. Neurotoxicity in young adults 20 years after childhood exposure to lead: The Bunker Hill experience. Occup Environ Med 55:507-516.
- \*Stokinger HE. 1981. Lead. In: Clayton GD, Clayton FE, eds. Patty's industrial hygiene and toxicology. Vol. 2A: Toxicology. New York. NY: John Wiley and Sons. 1687-1728.
- \*Stollery BT. 1996. Reaction time changes in workers exposed to lead. Neurotoxicol Teratol 18(4):477-483.
- \*Stollery BT, Banks HA, Broadbent DE, et al. 1989. Cognitive functioning in lead workers. Br J Ind Med 46:698-707.
- \*Stollery BT, Broadbent DE, Banks HA, et al. 1991. Short term prospective study of cognitive functioning in lead workers. Br J Ind Med 48:739-749.
- \*Stoner GD, Shimkin MB, Troxell MC, et al. 1976. Test for carcinogenicity of metallic compounds by the pulmonary tumor response in strain A mice. Cancer Res 36:1744-1747.
- \*Stuik EJ. 1974. Biological response of male and female volunteers to inorganic lead. Int Arch Arbeitsmed 33:83-97.
- \*Stutz DR, Janusz SJ. 1988. Hazardous materials injuries: A handbook for pre-hospital care. 2nd ed. Beltsville, MD: Bradford Communications Corporation, 314-315.
- \*Swenberg JA, Short B, Borghoff S, et al. 1989. The comparative pathobiology of 12-globulin nephropathy. Toxicol Appl Phamacol 97:35-46.
- \*Tabuchi T, Okayama A, Ogawa Y, et al. 1989. A new HPLC fluorimetric method to monitor urinary delta-aminolevulinic acid (ALA-U) levels in workers exposed to lead. Int Arch Occup Environ Health 61:297-302.
- \*Tachi K, Nishimae S, Saito K. 1985. Cytogenic effects of lead acetate on rat bone marrow cells. Arch Environ Health 40:144-147.
- Taylor A. 1996. Metabolism and toxicology of lead. Rev Environ Health 6:1-83.
- \*Taylor DH, Noland EA, Brubaker CM, et al. 1982. Low level lead (Pb) exposure produces learning deficits in young rat pups. Neurobehav Toxicol Teratol 4:311-314.
- Teisinger J, Stvblova V. 1961. [Neurological picture of chronic lead poisoning.] Acta Univ Carol Med Suppl 14:199-206. (Russian)
- Tejani A, Lancman L. Rajkumar S. 1986. Progressive renal damage due to lead intoxication in early life. Int J Pediatr Nephrol 7:9-12.
- \*Tennekoon G, Aitchison CS, Frangia J, et al. 1979. Chronic lead intoxication: Effects of developing optic nerve. Ann Neurol 5:558-564
- \*Ter Haar GL, Bayard MA. 1971. Composition of airborne lead particles. Nature 232:553-554.

### LEAD 570 8. REFERENCES

- Teramoto K, Wakitani F, Horiguchi S, et al. 1993. Comparison of the neurotoxicity of several chemicals estimated by the peripheral nerve conduction velocity in rats. Environ Res 62:148-154.
- \*Tharr D. 1993. Lead contaminaton in radiator repair shops. Appl Occup Environ Hyg 8(5):434-438.
- \*Thatcher RW, Lester ML, McAlaster R, et al. 1982. Effects of low levels of cadmium and lead on cognitive functioning in children. Arch Environ Health 37:159-166.
- \*Thawley DG, Willoughby RA, McSherry BJ. et al. 1977. Toxic interaction among lead, zinc, and cadmium with varying levels of dietary calcium and vitamin D. Environ Res 14:463-475.
- \*Thomasino JA, Zuroweste E, Brooks SM, et al. 1977. Lead, zinc and erythrocyte delta-aminolevulinic acid dehydratase: Relationships in lead toxicity. Arch Environ Health 32:244-247.
- \*Thompson GN, Robertson EF, Fitzgerald S. 1985. Lead mobilization during pregnancy. Med J Aust 143:131.
- \*Tiffany-Castiglioni E. 1993. Cell culture models for lead toxicity in neuronal and glial cells. Neurotoxicology 14:513-536.
- \*Tiffany-Castiglioni E, Legare ME, Schneider LA, et al. 1996. Astroglia and lead neurotoxicity. In: Aschner M, Kimelberg HK, ed. The role of glia in neurotoxicity. Boca Raton: CRC Press, 175-200.
- Tiffany-Castiglioni E, Sierra EM, Wu JN, et al. 1989. Lead toxicity in neuroglia. Neurotoxicology 10:417-443.
- \*Todd AC, Wetmur JG, Moline JM, et al. 1996. Unraveling the chronic toxicity of lead: An essential priority for environmental health. Environ Health Perspect 104(1):141-146.
- Todd DA, Adams JAS Sr. 1987. Shifting sources of lead pollution. In: Hemphill DD, ed., Trace Substances in Environmental Health 21st Annual Cont ence, St. Louis, Missouri, 104-112.
- \*Tola S, Hernberg S, Asp S, et al. 1973. Parameters indicative of absorption and biological effect in new lead exposure: A prospective study. Br J Ind Med 30:134-141.
- \*Tomokuni K, Ichiba M. 1988. A simple method for colorimetric determination of urinary delta-aminolevulinic acid in workers exposed to lead. Jpn J Ind Health 30:52-53.
- \*Tomokuni K, Ichiba M, Hirai Y. 1988. Species difference of urinary excretion of delta-aminolevulinic acid and coproporphyrin in mice and rats exposed in lead. Toxicol Lett 41:255-259.
- \*Tong S, Baghurst P, McMichael A, et al. 1996. Lifetime exposure to environmental lead and children's intelligence at 11-13 years: the Port Pirie cohort study. BMJ 312(7046):1569-1575.
- \*Tonner LE, Heiman AS. 1997. Lead may affect glucocorticoid signal transduction in cultured hepatoma cells through inhibition of protein kinase C. Toxicology 119:155-166.
- \*Tonner LE, Katz DI, Heiman AS. 1997. The acute effect of lead acetate on glucocorticoid receptor binding in C6 glioma cells. Toxicology 116:109-122.

# LEAD 571 8. REFERENCES

Toriumi H, Kawai M. 1981. Free erythrocyte protoporphyrin (FEP) in a general population, workers exposed to low-level lead, and organic-solvent workers. Environ Res 25:310-316.

\*Tracqui A, Bosque MA, Costa V, et al. 1994. Lack of relationship between hair lead levels and some usual markers (blood lead levels, ZPP, urinary ALA-D) in occupationally exposed workers. Ann Biol Chem 52:769-773.

\*TRI96. 1998. Toxic Chemical Release Inventory. National Library of Medicine, National Toxicology Information Program, Bethesda, MD.

\*Triebig G, Weitle D, Valentin H. 1984. Investigations on neurotoxicity of chemical substances at the workplace: V. Determination of the motor and sensory nerve conduction velocity in persons occupationally exposed to lead. Int Arch Occup Environ Health 53:189-204.

Troster EJ, Schvartsman S. 1988. Lead exposure in pregnant women and their newborns in the city of Sao Paulo, Brazil. Biomed Environ Sci 1:64-70.

Tsai ECE. 1987. Analysis of ambient lead concentrations around three secondary lead smelters. Water Air Soil Pollut 33:321-329.

Tsuchiya K, Sugita M, Sakurai H. 1978. [Dose-response relationships at different exposure levels: Reexamination in establishing no-effect levels.] Sangyo lgaku 20:247-253. (Japanese)

\*Tulasi SJ, Reddy PUM, Rao JV. 1992. Accumulation of lead and effects on total lipids and lipid derivatives in the freshwater fish Anabas testudineus (Bioch). Ecotoxicol Environ Safety 23:33-38.

Tulasi SJ, Yasmeen R, Padmaja Reddy C, et al. 1987. Lead uptake and lead loss in the fresh water field crab, Barytelphusa guerini, on exposure to organic and inorganic lead. Bull Environ Contam Toxicol 39:63-68.

\*Tuppurainen M, Wagar G, Kurppa K. 1988. Thyroid function as assessed by routine laboratory tests of workers with long-term lead exposure. Scand J Work Environ Health 14:175-180.

\*Turlakiewicz Z, Chmielnicka J. 1985. Diethyllead as a specific indicator of occupational exposure to tetraethyllead. Br J Ind Med 42:682-685.

\*Tuthill RW. 1996. Hair lead levels related to children's classroom attention-deficit behavior. Arch Environ Health 51:214-220.

U.S. Congress. 1986. Superfund Amendments and Reauthorization Act of 1986. Section 102. Reportable quantities. Washington, DC: Congress of the United States.

U.S. Congress. 1988a. House suspended rules and passed HR 4939, Lead Contamination Control Act of 1988 Text of HR4939 and discussion. Congressional Record 100-140:H9645-H9648.

U.S. Congress. 1988b. Senate passed HR 4939, Lead Contamination Control Act of 1988. Congressional Record 100-146:Sl6375.

### LEAD 572 8. REFERENCES

- \*U.S. Congress. 1990. Clean Air Act amendments. Title III, Hazardous Air Pollutants, Section 112, Hazardous Air Pollutants as Amended, October 26, 1990. One Hundred and First Congress of the United States of America, 2nd Session Report 101-952.
- \*U. S. Congress. 1992a. Toxic Substances Control Act (TSCA). Title IV-Lead Exposure Reduction. Enacted by Public Law 102-550, October 28, 1992.
- \*U. S. Congress. 1992b. Housing and Community Development Act of 1992. Title X; Lead-based Paint Hazard Reduction Act of 1992. Section 1018. (42 U.S.C. 4852d).
- \*Undeger U, Basaran N, Canpinar H, et al. 1996. Immune alterations in lead-exposed workers. Toxicology 109(2-3):167-172.
- \*Underwood EJ. 1977. Trace elements in human and animal nutrition. 4th ed. London, UK: Academic, 70, 133, 205.
- \*USDOC. 1992. Public comment on the toxicological profile for lead. Submitted to the Agency for Toxic Substances and Disease Registry. Washington, DC: United States Department of Commerce, International Trade Administration.
- \*USPATFULL. 1997. USPATFULL data base through STN. 1997. PI+ US 5328690 940712.
- \*Valciukas JA, Lilis R, Eisinger J, et al. 1978. Behavioral indicators of lead neurotoxicity: Results of a clinical field survey. Int Arch Occup Environ Health 41:217-236.
- Valerio F, Brescianini C, Lastraioli, S. 1989. Airborne metals in urban areas. Int J Environ Anal Chem 35:101-110.
- \*Van Borm W, Wouters L, Van Grieken R, et al. 1990. Lead particles in an urban atmosphere: An individual particle approach. Sci Total Environ 90:55-66.
- \*Van Esch EJ, Kroes R. 1969. The induction of renal tumors by feeding basic lead acetate to mice and hamsters. Br J Cancer 23:765-771.
- Van H, Deyrup CA. 1988. OPD Chemical Buyer's Directory 1988. 75th ed. New York, NY: Schnell Publishing Co, 396.
- \*Vasilios D, Theodor S, Konstantinos S, et al. 1997. Lead concentrations in maternal and umbilical cord blood in areas with high and low air pollution. Clin Exp Obstet Gynecol 24(4):187-9.
- \*Verberk MM, Willems TE, Verplanke AJ, et al. 1996. Environmental lead and renal effects in children. Arch Environ Health 51(1):83-87.
- \*Verschoor M, Wibowo A, Herber R, et al. 1987. Influence of occupational low-level lead exposure on renal parameters. Am J Ind Med 12:341-351.
- \*Vicente-Ortega V, Martinez-Garcia AF, Cremades-Campos A, et al. 1996. Utrastructural investigation of lead-induced intranuclear inclusion bodies in mice. Ultrastructural Pathol 20:263-273.

# LEAD 573 8. REFERENCES

- \*Victory W. 1988. Evidence for effects of chronic lead exposure on blood pressure in experimental animals: An overview. Environ Health Perspect 78:71-76.
- \*Victory W, Throler HA, Volpe R, et al. 1988. Summary of discussion sessions: Symposium on lead blood pressure relationships. Environ Health Perspect 78:139-155.
- \*Victory W, Vander AJ, Markel LK, et al. 1982a. Lead exposure begun *in utero* decreases renin and angiotensin II in adult rats. Proc Soc Exp Biol Med 170:63-67.
- \*Victory W, Vander AJ, Mouw DR. 1979. Effect of acid-base status on renal excretion and accumulation of lead in dogs and rats. Am J Physiol 6:F398-F407.
- \*Victory W, Vander AJ, Shulak JM, et al. 1982b. Lead, hypertension, and the renin-angiotensin system in rats. J Clin Med 99:354-362.
- \*Vieira I, Sonnier M, Cresteil T. 1996. Developmental expression of CYP2E1 in the human liver: hypermethylation control of gene expression during the neonatal period. European Journal of Biochemistry 238:476-483.
- \*Vij AG, Satija NK, Flora SJS. 1998. Lead induced disorders in hematopoietic and drug metabolizing enzyme system and their protection by ascorbic acid supplementation. Biomed Environ Sci 11:7-14.
- \*Vimpani GV, Baghurst PA, Wigg NR, et al. 1989. The Port Pirie cohort study--cumulative lead exposure and neurodevelopmental status at age 2 years: Do HOME scores and maternal IQ reduce apparent effects of lead on Bayley Mental scores? In: Smith M. Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Press.
- \*Vimpani GV, Wigg NR, Robertson EF, et al. 1985. The Port Pirie cohort study: Blood lead concentration and childhood developmental assessment. Presented at: Lead Environmental Health: Current Issues, May, Duke University, Durham NC.
- \*Viverette L, Mielke HW, Brisco M, et al. 1996. Environmental health in minority and other underserved populations: Benign methods for identifying lead hazards at day care centers of New Orleans. Environmental Geochemistry and Health 18(1):41-45.
- \*Volkening J, Baumann H, Heumann KG. 1988. Atmospheric distribution of particulate lead over the Atlantic Ocean from Europe to Antarctica. Atmos Environ 22:1169-1174.
- \*Voors AW, Johnson WD, Shuman MS. 1982. Additive statistical effects of cadmium and lead on heart related disease in a North Carolina autopsy series. Arch Environ Health 37:98-102.
- \*Vural N, Duydu Y. 1995. Biological, monitoring of lead in workers exposed to tetraethyllead. Sci Total Environ 171:183-187.
- \*Vyskocil A, Panci J, Tusl M, et al. 1989. Dose-related proximal tubular dysfunction in male rats chronically exposed to lead. J Appl Toxicol 9:395-400.
- \*Vyskocil A, Semscky V, Fiala Z, et al. 1995. Renal alterations in female rats following subchronic lead exposure. J Appl Toxicol 15:257-262.

# LEAD 574 8. REFERENCES

- \*WAC. 1985. Groundwater quality. Wisconsin Administrative Code. Chapter NR 140. Wisconsin: Department of Natural Resources.
- \*Wada O, Yano Y, Ono T, et al. 1973. The diagnosis of different degrees of lead absorption in special references to choice and evaluation of various parameters indicative of an increased lead absorption. Ind Health 11:55-67.
- Walker JT. 1986. Mortality and I.H. study of workers exposed to lead chromate paints. National Institute for Occupational Safety and Health (NIOSH).
- \*Walsh CT, Rvden EB. 1984. The effect of chronic ingestion of lead on gastrointestinal transit in rats. Toxicol Appl Pharmacol 75:485-495.
- Walsh TJ, Schulz DW, Tilson HA, et al. 1996. Acute exposure to triethyl lead enhances the behavioral effects of dopaminergic agonists: Involvement of brain dopamine in organolead neurotoxicity. Brain Res 363:222-229.
- \*Walter SD, Yankel AJ, von Lindern IH. 1990. Age-specific risk factors for lead absorption in children. Arch Environ Health 35:53-58.
- \*Wang L, Xu SE, Zhang GD, et al. 1989. Study of lead absorption and its effect on children's development. Biomed Environ Sci 2:325-330.
- \*Ward Ni, Watson R, Brvce-Smith D. 1987. Placental element levels in relation to fetal development for obstetrically normal births: A study of 37 elements: Evidence for the effects of cadmium, lead, and zinc on fetal growth and for smoking as a source of cadmium. Int J Biosoc Res 9:63-81.
- \*Wasserman GA, Graziano JH, Factor-Litvack P, et al. 1994. Consequences of lead exposure and iron supplementation on childhood development at age 4 years. Neurotoxicol Teratol 16:233-240.
- \*Wasserman GA, Liu X, Lolacono NJ, et al. 1997. Lead exposure and intelligence in 7-year-old children: The Yugoslavia prospective study. Environ Health Perspect 105(9):956-62.
- \*Wasserman GA, Staghezza-Jaramillo B, Shrout P, et al. 1998. The effect of lead exposure on behavior problems in preschool children. Am J Public Health 88(3):481-6.
- \*Watanabe H, Hu H, Rotnitzky A. 1994. Correlates of bone and blood lead levels in carpenters. Am J Ind Med 26:255-264.
- \*Watanabe T, Nakatsuka H, Kasahara M, et al. 1987. Urinary lead levels among farmers in nonpolluted areas in Japan. Toxicol Lett 37:69-78.
- \*Watson WS, Hume R, Moore MR. 1980. Oral absorption of lead and iron. Lancet 2:236-237.
- \*Waxman HS, Rabinowitz M. 1966. Control of reticulocyte polyribosome content and hemoglobin synthesis by heme. Biochim Biophys Acta 129:369-379.
- \*Weast RC, ed. 1985. CRC handbook of chemistry and physics. 66th ed. Boca Raton, FL: CRC Press, Inc. B105-BIO7.

# LEAD 575 8. REFERENCES

- \*Wedeen RP. 1988. Bone lead, hypertension, and lead nephropathy. Environ Health Perspect 78:57-60.
- \*Wedeen RP. 1990. In vivo tibial XFR measurement of bone lead. Arch Environ Health 45(2):69-71.
- \*Wedeen RP. 1992. Removing lead from bone: Clinical implications of bone lead stores. Neurotoxicology 13:843-852.
- Wedeen RP, Maesaka JK, Weiner B, et al. 1975. Occupational lead nephropathy. Am J Med 59:630-641.
- \*Wedeen RP, Mallik DK. Batuman V. 1979. Detection and treatment of occupational lead nephropathy. Arch Intern Med 139:53-57.
- \*Weisel C, Demak M, Marcus S, et al. 1991. Soft plastic bread packaging: Lead content and reuse by families. Am J Public Health 81(6):756-758.
- \*Weiss ST, Munoz A, Stein A, et al. 1986. The relationship of blood lead to blood pressure in longitudinal study of working men. Am J Epidemiol 123:800-808.
- \*Weiss ST, Munoz A, Stein A, et al. 1988. The relationship of blood lead to systolic blood pressure in a longitudinal study of policemen. Environ Health Perspect 78:53-56.
- \*Weitzman M, Aschengrau A, Bellinger D, et al. 1993. Lead-contaminated soil abatement and urban children's blood lead levels. JAMA 269(13):1647-1654.
- \*West JR, Smith HW, Chasis H. 1948. Glomerular filtration rate, effective renal blood flow, and maximal tubular excretory capacity in infancy. J. of Pediatrics 32a:10-18.
- \*Wetmur JG. 1994. Influence of the common human delta-aminolevulinate dehydratase polymorphism on lead body burden. Environ Health Perspect 102(Suppl 3):215-219.
- \*Whelan EA, Piacitelli GM, Gerwel B, et al. 1997. Elevated blood lead levels in children of construction workers. Am J Public Health 87(8):1352-1355.
- White DH, King KA, Mitchell CA, et al. 1986. Trace elements in sediments, water, and American coots (Fulica americans) at a coal-fired power plant in Texas, 1979-1982. Bull Environ Contam Toxicol 36:376-383.
- \*White PD, Van Leeuwen P, Davis BD, et al. 1998. The conceptual structure of the integrated exposure uptake biokinetic model for lead in children. Environ Health Perspect 106:1513-1530.
- \*WHO. 1977. United Nations Environmental Programme: Lead: Environmental Health Criteria 3. Geneva, Switzerland: World Health Organization, 112.
- \*WHO. 1984. Guidelines for Drinking-water Quality. Volume I: Recommendations. World Health Organization.
- \*WHO. 1986. Regional Office for Europe: Air quality guidelines. Vol. 11. Geneva, Switzerland: World Health Organization, 1-34.

# LEAD 576 8. REFERENCES

- \*Wibberlev DG, Khera AK, Edwards JH. et al. 1977. Lead levels in human placentae from normal and malformed births. J Med Genet 14:339-345.
- \*Widdowson EM, Dickerson JWT. 1964. Chapter 17: Chemical composition of the body. In: Mineral metabolism: an advanced treatise volume II the elements part A (editors: C.L. Comar and Felix Bronner), Academic Press, New York.
- \*Widzowski DV, Finkelstein JN, Pokora MJ, et al. 1994. Time course of postnatal lead-induced changes in dopamine receptors and their relationship to changes in dopamine sensitivity. Neurotoxicology 15:853-866.
- \*Wielopoiski L, Ellis K, Vaswani A, et al. 1986. *In vivo* bone lead measurements: A rapid monitoring method for cumulative lead exposure. Am J Ind Med 9:221-226.
- Wiener JG, Stokes PM. 1990. Enhanced bioaccumulation of mercury, cadmium, and lead in low-alkalinity waters: An emerging regional environmental problem. Environ Toxicol Chem 9:821-823.
- \*Wigg NR, Vimpani GV, McMichael AJ, et al. 1988. Port Pirie cohort study: Childhood blood lead and neuropsychological development at age two years. J Epidemiol Community Health 42:213-219.
- \*Wildt K, Eliasson R, Berlin M. 1983. Effects of occupational exposure to lead on sperm and semen. In: Clarkson TW, Nordberg GF, Sager PR, eds. Reproductive and developmental toxicity of metals. Proceedings of a Joint Meeting, Rochester. NY, May 1982. New York, NY: Plenum Press, 279-300.
- \*Wilhelm M, Lombeck I, Hafner D, et al. 1989. Hair lead levels in young children from the F.R.G. Journal of Trace Elements and Electrolytes in Health and Disease 3:165-170.
- \*Willems MI, Deschepper GG, Wibowo AAE, et al. 1982. Absence of an effect of lead acetate on sperm morphology, sister chromatid exchange or on micronuclei formation in rabbits. Arch Toxicol 50:149-157.
- \*Williamson AM, Teo RKC. 1986. Neurobehavioral effects of occupational exposure to lead. Br J Ind Med 43:374-380.
- \*Willoughby RA, MacDonald E, McSherry BJ, et al. 1972. Lead and zinc poisoning and the interaction between Pb and Zn poisoning in the foal. Can J Comp Med 36:348-359.
- Wilson D, Esterman A, Lewis M, et al. 1986. Children's blood lead levels in the lead smelting town of Port Pirie, South Australia. Arch Environ Health 41:245-250.
- \*Windebank AJ, McCall JT, Hunder HG, et al. 1980. The endoneurial content of lead related to the onset and severity of segmental demyelination. J Neuropathol Exp Neurol 39:692-699.
- Winder C. 1987. Reproductive effects of occupational exposures to lead: Policy considerations. Neurotoxicology 8:411-419.
- Winder C. 1989. Reproductive and chromosomal effects of occupational exposure to lead in the male. Reprod Toxicol 3:221-233.
- \*Winder C, Bonin T. 1993. The genotoxicity of lead. Mut Res 285:117-124.

- \*Winneke G. 1980. Non-recovery of lead-induced changes of visual evoked potentials in rats. Toxicol Lett I:77.
- \*Winneke G, Altmann L, Kramer U, et al. 1994. Neurobehavioral and neurophysiological observations in six year old children with low lead levels in East and West Germany. Neurotoxicology 15(3):705-713.
- Winneke G, Beginn U, Ewert T, et al. 1984. [Understanding of subclinical lead effects on the nervous system of children with known prenatal exposure in Nordenhami]. Schriftenr Ver Wasser Boden Lufthyg 59:215-230. (German)
- \*Winneke G, Beginn U, Ewert T, et al. 1985a. Comparing the effects of perinatal and later childhood lead exposure on neurophysiological outcome. Environ Res 38:155-167.
- \*Winneke G, Brockhaus A, Baltissen R. 1977. Neurobehavioral and systemic effects of longterm blood lead-elevation in rats: I. Discrimination learning and open field-behavior. Arch Toxicol 37:247-263.
- \*Winneke G, Brockhaus A, Collet W, et al. 1985b. Predictive value of different markers of lead-exposure for neuropsychological performance. In: Lekkas TD, ed. International Conference on Heavy Metals in the Environment, Athens, Greece. September, Vol. 1. Edinburgh, United Kingdom: CEP Consultants, Ltd., 44-47.
- \*Winneke G, Brockhous A, Ewers U, et al. 1990. Results from the European multicenter study on lead neurotoxicity in children: Implications for risk assessment. Neurotoxicol Teratol 12:553-559.
- Winneke G, Collet W, Lilienthal H. 1988. The effects of lead in laboratory animals and environmentally exposed children. Toxicology 49:291-298.
- Winneke G, Kraemer U. 1984. Neuropsychological affects of lead in children: Interactions with social background variables. Neuropsychobiology 11:195-202.
- \*Winneke G, Lilienthal H, Kramer U. 1996. The neurobehavioural toxicology and teratology of lead. Arch Toxicol Suppl 18:57-70.
- Winston WK, Succop PA, Bornschein RL, et al. 1991. Serum vitamin D metabolites and bone mineralization in young children with chronic to moderate lead exposure. Pediatrics 87:680-687.
- Witimers LE Jr, Aufderheide AC, Wallgren J, et al. 1998. Lead in bone: IV. Distribution of lead in the human skeleton. Arch Environ Health 43:381-391.
- \*Wolf AW, Ernhart CB, White CS. 1985. Intrauterine lead exposure and early development. In: Lekkas TD, ed. International Conference: Heavy Metals in the Environment, Athens, Greece, September, Vol. 2. Edinburgh, United Kingdom: CEP Consultants, Ltd, 153-155.
- \*Wolff MS. 1983. Occupationally derived chemicals in breast milk. Am J Ind Med 4:259-281.
- Wolff RK, Griffith WC, Cuddihy RG, et al. 1989. Modeling accumulations of particles in lung during chronic inhalation exposures that lead to impaired clearance. Health Physics 57:61-68.

# LEAD 578 8. REFERENCES

- \*Wolnik KA, Fricke FL, Capar SG, et al. 1983a. Elements in major raw agricultural crops in the United States. 1. Cadmium and lead in lettuce, peanuts, potatoes, soybeans, sweet corn, and wheat. J Agric Food Chem 31:1240-1244.
- \*Wolnik KA, Fricke FL, Capar SG, et al. 1983b. Elements in major raw agricultural crops in the United States. 3. Cadmium, lead, and eleven other elements in carrots, field corn, onions, rice, spinach, and tomatoes. J Agric Food Chem 33:807-811.
- \*Wong PK. 1988. Mutagenicity of heavy metals. Bull Environ Contam Toxicol 40:597-603.
- \*Woodbury, WD. 1985a. Lead. In: Mineral facts and problems, 1985 ed. Washington, DC: U.S. Department of the Interior.
- \*Woodbury WD. 1985b. Lead. In: Preprint from the 1985 Bureau of Mines Mineral Yearbook. Washington, DC: U.S. Department of the Interior.
- \*Wu T-N, Yang K-C, Wang C-M. 1996. Lead poisoning caused by contaminated cordyceps, a Chinese herbal medicine: Two case reports. Sci Total Environ 182:193-195.
- \*Xian X. 1989. Response of kidney bean to concentration and chemical form of cadmium, zinc, and lead in polluted soils. Environment Pollution 57:127-137.
- \*Xu GB, Yu CP. 1986. Effects of age on deposition of inhaled aerosols in the human lung. Aerosol Sci Technol 5:349-357.
- \*Xu Y, Liang Y. 1997. Combined nickel and phosphate modifier for lead determination in water by electrothermal atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry 12(4):471-474.
- \*Yankel AJ, von Lindern IH, Walter SD. 1977. The Silver Valley lead study: The relationship of childhood lead poisoning and environmental exposure. J Air Pollut Contr Assoc 27:763-767.
- \*Yeh JH, Chang YC, Wang JD. 1995. Combined electroneurographic and electromyographic studies in lead workers. Occup Environ Med 52(6):415-419.
- \*Yip R, Norris TN, Anderson AS. 1981. Iron status of children with elevated blood lead concentrations. J Pediatr 98:922-925.
- \*Yokoyama K, Araki S. 1986. Alterations in peripheral nerve conduction velocity in low and high lead exposure: An animal study. Ind Health 24:67-74.
- \*Yokoyama K, Araki S. 1992. Assessment of axonal transport in lead-exposed rats. Environ Res 59:440-446.
- \*Yokoyama K, Araki S, Murata K, et al. 1997. Subclinical vestibulo-cerebellar, anterior cerebellar lobe and spinocerebellar effects in lead workers in relation to concurrent and past exposure. Neurotoxicology 18(2):371-380.
- \*Zajac CS, Abel EL. 1990. Lack of lead effects on fetal development and offspring learning when combined with alcohol in the Long-Evans rat. Teratology 41:33-41.

Zakshek EM, Puckett KJ, Percy KE. 1986. Lichen sulfur and lead levels in relation to deposition patterns in Eastern Canada. International Symposium on Acidic Precipitation, Muskoka. Ontario, Canada, Sept. 15-20, 1985. Water Air Soil Pollut 30:161-169.

\*Zaragoza L, Hogan K. 1998. The integrated exposure uptake biokinetic model for lead in children: independent validation and verification. Environ Health Perspect 106(6):1551-1556.

Zawia NH, Harry GJ. 1995. Exposure to lead-acetate modulates the developmental expression of myelin genes in the rat frontal lobe. Int J Develop Neuroscience 13:639-644.

Zawia NH, Harry GJ. 1996. Developmental exposure to lead interferes with glial and neuronal differential gene expression in the rat cerebellum. Toxicol Appl Pharmacol 138:43-47.

Zelenak JP, Pringle J. 1986. A cross-sectional analysis of the possible relationship between lead exposure in the storage battery industry and changes in biochemical markers of renal, hematopoietic and hepatic functioning and the reporting of recent abdominal pain. Diss Abstr Int B 48:404-405.

\*Zelikoff JT, Li JH, Hartwig A, et al. 1988. Genetic toxicology of lead compounds. Carcinogenesis 9:1727-1732.

\*Zelikoff JT, Parsons E, Schlesinger RB. 1993. Inhalation of particulate lead oxide disrupts pulmonary macrophage-mediated functions important for host defense and tumor surveillance in the lung. Environ Res 62:207-222.

\*Zhang W, Zhang GG, He HZ, et al. 1994. Early health effects and biological monitoring in persons occupationally exposed to tetraethyllead. Int Arch Occup Environ Health 65:395-399.

\*Zhang Z-W, Shimbo S, Ochi N, et al. 1997. Determination of lead and cadmium in food and blood by inductively coupled plasma mass spectrometry: a comparison with graphite furnace atomic absorption spectrometry. Science of the Total Environment 205(2-3):179-187.

Zhou R. 1986. [Effects of lead on female reproductive function and lead poisoning in children.] Zhonghua Laodong Weisheng Zhivebing Zazhi 4:226-228. (Chinese)

Zhu HM, Tang XZ. 1989. Determination of lead in environmental soil using lead-238 as a yield tracer. J Radioanal Nucl Chem 130:443-449.

\*Ziegler EE, Edwards BB, Jensen RL, et al. 1978. Absorption and retention of lead by infants. Pediatr Res 12:29-34.

\*Zimmerman-Tanselia C, Campara P, D'Andrea F, et al. 1983. Psychological and physical complaints of subjects with low exposure to lead. Hum Toxicol 2:615-623.

\*Zollinger HU. 1953. [Kidney adenomas and carcinomas in rats caused by chronic lead poisoning and their relationship to corresponding human neoplasms.] Virchows Arch Pathol Anat Physiol 323:694-710. (German)

Zurera G, Estrada B, Rincon F, et al. 1987. Lead and cadmium contamination levels in edible vegetables. Bull Environ Contam Toxicol 38:805-812.

			·	
		•		